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 Organi	zation: Town of Swan	sea	
EPA N	PDES Permit Number: M	AR041163		
Primar	ry MS4 Program Manag	er Contact Informat	ion	
Name:	me: William Anderson		Title: Highway Dept Director	
Street A	Address Line 1: 101 Gard	eners Neck Road		
Street A	Address Line 2:			
City:	Swansea	State: MA	Zip Code: 02777	
Email:	wanderson@town.swanse	ea.ma.us	Phone Number: (508) 678-5615	
Stormy	water Management Prog	gram (SWMP) Inform	nation	
SWMP	Cocation (web address):	https://www.town.swcover-and-appendices	ansea.ma.us/highway-department/pages/swansea-swmp-	
Date S'	WMP was Last Updated:	June 27, 2019		
If the S	SWMP is not available on	the web please provid	e the physical address:	
_	parts of SWMP are still in ay Department at 101 Ga		posted; a hard copy of non-posted components are at the ansea MA 02777	

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 (Hy	/drocarbons)/ Metal	s	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🔲 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	☐ Lake and Po	nd Phosphorus
Out of State:	⊠ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
				Clear Impairments and TMDLs
Next, check off all requirements below that have been completed. By checking each box you are certifying that you have completed that permit requirement fully. If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.				
Year 3 Requirements				
☐ Inspected and screened all outfalls/interconnections (excluding Problem and Excluded outfalls)				
1 1 -	Updated outfall/interconnection priority ranking based on the information collected during the dry weather inspections as necessary			
1 1	Post-construction bylaw, ordinance, or other regulatory mechanism was updated and adopted consistent with permit requirements			

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 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:

All of Swansea's outfalls have now been inspected, however the inspections were not completed until after June 30. Of the inspected outfalls, six had dry weather flow and five of the six were screened by field and laboratory analysis. One outfall still needs dry weather sample collection, which is scheduled to occur in the next few months when weather conditions are favorable. Seven outfalls need further evaluation to confirm the upstream connections for flow inspection/sampling because the outfalls were either inundated or potentially buried by beach sand. The priority ranking of the outfalls has now been revised based on the inspections and screening conducted to date, however was not complete as of June 30.The current stormwater by-law references the Massachusetts Stormwater standards. Since the MassDEP is in the process of updating their regulations/standards to align with EPA's MS4 requirements, the Town of Swansea plans to rely on MassDEP's imminent update to the stormwater standards (https://www.mass.gov/doc/stormwater-advisory-committee-meeting-6-presentation/download). The Town is also in the process of updating the by-law to lower the lot size requiring review from one acre to one-half acre, and hopes to have this update approved at the spring Town meeting. In addition, preparation of stormwater regulations to implement the by-law is in process so that these can be adopted by the Planning Board.

A 1	D
Annual	Requirements

	Provided an opportunity for public participation in review and implementation of SWMP and with State Public Notice requirements	complied		
\boxtimes	Kept records relating to the permit available for 5 years and made available to the public			
\boxtimes	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:			
\boxtimes	Properly stored and disposed of catch basin cleanings and street sweepings so they did not disposed waters	scharge to		
\boxtimes	Provided training to employees involved in IDDE program within the reporting period			
\boxtimes	All curbed roadways were swept at least once within the reporting period			
	Updated system map due in year 2 as necessary			
\boxtimes	Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt			
\boxtimes	Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities			
\boxtimes	Updated inventory of all permittee owned facilities as necessary			
\boxtimes	O&M programs for all permittee owned facilities have been completed and updated as necess	sary		

Town of Swansea Page 4 Implemented all maintenance procedures for permittee owned facilities in accordance with O&M ⊠ 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, 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: The SWMP is available on the Town website and at the Highway Department for review. There were four public participation clean-up events held during the reporting period, however these were not noticed in accordance with State Public Notice Requirements. In the upcoming year, public clean-up events will be noticed in accordance with State Public Notice Requirements. The events held consisted of two clean-ups by two different volunteer groups at Town Beach in April and May 2021; a May 2021 clean-up along Lee's River Drive; and a June 2021 clean-up along Locust Street. The Town has not completed all the Phase 1 Mapping. The Town intended to complete required updates using Highway Department staff, however due to COVID-19 and resulting staff shortages and demands on available staff, these updates have been delayed. All catchbasins and manholes have been physically located and will be added to the GIS system shortly. Approximately 80% of the town-owned BMPs and their associated outlet structures have been located. Plans include identifying the remaining town-owned BMPs in fall 2021 and completing the mapping of the entire system completed by June 30th of 2022. 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 * 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:

As reported in last year's Annual Report, educational brochures were previously available at Town Hall and addressed stormwater management including appropriate use and disposal of grass clippings/leaf litter and fertilizers as well as pet waste management. However, Town Hall was closed during COVID-19 so the Town is in the process of posting educational material on the Town website. On-line posting has not yet been completed due to staffing resources, but is planned to occur soon.

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

Annual Requirements

Public Education and Outreach*

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Fown of Swansea Page 5
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 BMF were documented.
 The BMP information is attached to the email submission
○ The BMP information can be found at the following website:
The Town does not currently have any BMPs that are designed to remove nitrogen.
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:
As reported in last year's Annual Report, educational brochures were previously available at Town Hall and addressed stormwater management including appropriate use and disposal of grass clippings/leaf litter and fertilizers as well as pet waste management. The Town is in the process of transitioning from hard copy brochures to on-line postings on the Highway website, but on-line posting of materials has been delayed.
Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

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

submitted?

Yes

Part III: Receiving Waters/Impaired Waters/TMDL

○ No	
If yes, describe below, including a	ny relevant impairments or TMDLs:
owned outfall draining impervious draining impervious areas owned	ed from the list of MS4 outfalls, as it has been determined to be a privately s area from a private development/road and is not owned by the Town or by the Town. Outfall 4 has been removed from the list of outfalls as it has ssing conveying a natural stream under a road and is not a MS4 outfall.

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 SWMP is available for review online and at the Highway Department and the public is able to provide comments to Town officials regarding suggestions for additional actions to be added to the SWMP.
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 :
There were four public participation clean-up events held during the reporting period. The events held consisted of two clean-ups by two different volunteer groups at Town Beach in April and May 2021; a May 2021 clean-up along Lee's River Drive; and a June 2021 clean-up along Locust Street.
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: 0
Number of SSOs removed: 0
MS4 System Mapping
Optional: Provide additional status information regarding your map: The Town has not completed all the Phase 1 Mapping. The Town intended to complete required updates using Highway Department staff, however due to COVID-19 and resulting staff shortages and demands on available staff, these updates have been delayed. All catchbasins and manholes have been physically located and will be added to the GIS system shortly. Approximately 80% of the town-owned BMPs and their associated outlet
structures have been located. Plans include identifying the remaining town-owned BMPs in fall 2021 and completing the mapping of the entire system completed by June 30th of 2022.

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Screening of Outfalls/Interconnections

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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

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• The outfall screening data is attached to the email submission	
The outfall screening data can be found at the following website:	
Below, report on the number of outfalls/interconnections screened during this reporting	g period.
Number of outfalls screened: 44	
Below, report on the percent of outfalls/interconnections screened to date.	
Percent of outfalls screened: 85	
Optional: Provide additional information regarding your outfall/interconnection screen	ing:
All 52 outfalls were subject to an initial inspection, however eight of the 52 require a fo	
event and two were determined not to be MS4 outfalls. Of the total outfalls initially evaluated to the state of the state	· · · · · · · · · · · · · · · · · · ·
14,16, 18, 20 and 50) require follow-up as the outfall was either submerged during the upstream connecting catchbasin/manhole could not be confirmed to facilitate sampling.	
not be found and may be buried by beach sand or below the coastal water elevation; on	
flow observed, but due to access issues, sampling has been delayed and is scheduled fo	• •
Catchment Investigations	
If conducted, please submit all data collected during this reporting period as part of the investigations. Also include the presence or absence of System Vulnerability Factors for	
 No catchment investigations were conducted 	r each caichmeni.
The catchment investigation data is attached to the email submission	
The catchment investigation data is attached to the chian saomission The catchment investigation data can be found at the following website:	
The extension miresugation data out to found at the following weester.	
Below, report on the number of catchment investigations completed during this reporting	ng period.
Number of catchment investigations completed this reporting period: 0	
Below, report on the percent of catchments investigated to date.	
Percent of total catchments investigated: 0	
Optional: Provide any additional information for clarity regarding the catchment invest	tigations below:
Catchment investigations are proposed for future years and will be completed by Year	
Permit, in compliance with Section 2.3.4.8 of the permit. Catchments of outfalls recent	=
potentially including sewage (Outfalls 3, 7, and 12) will be prioritized for catchment in	vestigations.
IDDE Progress	
If illicit discharges were found, please submit a document describing work conducted o	ver 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 corre	ective measures and

schedule of removal.

○ No illicit discharges were found

- O The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

During Highway Department inspections and cleaning four illicit discharges were identified and disconnected. These were determined to be grey water from washing machines and one was connected to a sink being operated for dog grooming. An illicit discharge removal report has not yet been prepared, but will be completed shortly and placed on the Highway Department website. Suspicious discharges were identified in August and September 2021 at Outfalls 3, 7, and 12 and additional investigation of these flows is currently planned - however potential illicit discharge sources for these three suspicious discharges have not yet been identified.

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:	4	
Number of illicit discharges removed:	4	
Estimated volume of sewage removed:	0	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:	4
Total number of illicit discharges removed:	4

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

During Highway Department inspections and cleaning four illicit discharges were identified and disconnected. These were determined to be grey water from washing machines and one was connected to a sink being operated for dog grooming. In addition, three outfalls (3,7, and 12) were recently identified as potentially conveying flow from illicit connections due to elevated bacteria and nitrogen levels as well as low DO level and suspicious odor at one outfall (outfall 7). These sampling results were just obtained in September 2021, and these outfalls have been re-prioritized as high priority for catchment investigations. However, the actual sources and numbers of these suspicious discharges have not yet been identified.

Employee Training

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

The Highway Director performed an internal training with operators of the catch basin cleaner vehicle in September 2020. Training focused on observations that would flag the need to further investigate a potential illicit connection, such as: unusual pipe connections to catch basins; odors; visual discolorations; and water flowing when rain has not occurred in over 4 days. The Highway Director held an additional training internally with Highway staff to help identify illicit connects to the drainage system. During these inspections and cleaning, four illicit discharges were identified and disconnected. These were determined to be grey water from washing machines and one was connected to a sink being operated for dog grooming.

MCM4: Construction Site Stormwater Runoff Control

Below, report on the this reporting period	construction site plan reviews, inspections, and enforcement actions completed during !.
Numb	per of site plan reviews completed: 11
Numl	per of inspections completed: 0
Numl	per of enforcement actions taken: 0
Optional: Enter any enforcement actions	additional information relevant to construction site plan reviews, inspections, and
consultant. There w	nmercial site plan reviews conducted by the Highway Director and the Planning Board ere five reviews for smaller lots meeting the 1 acre criteria. There were two proposed No enforcement actions taken.

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

As-built Drawings

						receive					

Number of as-built drawings received: 2

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

The Town received 2 sets of as-built plans for two subdivisions - Oak Estates located off of Oak Street and Toussiett Point located on the south side of Barton Ave. Both roadways were accepted at Town Meeting

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:

This assessment has not yet been done but is scheduled to be completed by June 30, 2022; the status will be reported in next year's annual report.

Green Infrastructure Report

and progress towards making the practice allowable:
This assessment has not yet been done but is scheduled to be completed by June 30, 2022; the status will be reported in next year's annual report.
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:
This assessment has not yet been done but is scheduled to be completed by June 30, 2022; the status will be reported in next year's annual report.
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: 1,561
Number of catch basins cleaned: 1,561
Total volume or mass of material removed from all catch basins: 528 cubic yards
Below, report on the total number of catch basins in the MS4 system.
Total number of catch basins: 1,927
If applicable:
Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:
Street Sweeping
Report on street sweeping completed during this reporting period using one of the three metrics below.
Number of miles cleaned: 175

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O Volume of material removed:	[Select Units]
Weight of material removed:	[Select Units]
Stormwater Pollution Prevention Plan (SW	(PPP)
	ns for facilities that require a SWPPP completed during this
Number of site inspections cor	mpleted: 2
Describe any corrective actions taken at a fac	ility with a SWPPP:
areas. Although the SWPPP identifies that for	erosion controls were established to protect adjacent wetland our inspections will be completed annually (one each quarter), g period, but inspection frequency will be increased in order to ment in the SWPPP.
A 1	1°4° 1 T . C 4°
Monitoring or Study Results	ditional Information
Results from any other stormwater or receiving	ng water quality monitoring or studies conducted during the ove, where the data is being used to inform permit compliance or
Not applicable	
 The results from additional rep 	ports or studies are attached to the email submission
The results from additional rep	ports or studies can be found at the following website(s):
<u> </u>	on your behalf or if monitoring or studies conducted by other on of the type of information gathered or received shall be

Additional Information

own of Swansea	1 agc 1+
Optional: Enter any additional information relevant to your stormwater management program imple during the reporting period. Include any BMP modifications made by the MS4 if not already discuss	

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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:

Between July 2020 and June 2021, COVID -19 impacts have affected the availability of Town staff to conduct a variety of tasks, including updating mapping of initial catchment delineations, open channel conveyances, and Town-owned structural BMPS, as well as on-line posting of educational materials. In addition, there are eight outfalls in need of follow-up dry weather sampling or confirmatory investigations to confirm absence of dry weather flow. The Town intends to address these issues between September 2021 and June 2022.

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)

Town of Swansea

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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:		Title:								
Signature:	Signatory may be a duly authorized	Date:								
-	epresentative]									
Note: When prompted during signing, save the document under a new file name.										
Annual Danart	Submission									
Annual Report S		ED (1		7						
· ·	mail addresses listed below. Pleas		MassDEP by clicking on one of the lind hat all required attachments are include							

MassDEP: laura.schifman@mass.gov

Paper Signature:

EPA: stormwater.reports@epa.gov

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

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.