Year 1 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: May 1, 2018-June 30, 2019

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.

Part I: Contact Information

Name of Municipality or Organization: City of Everett	
EPA NPDES Permit Number: MAR041078	
Primary MS4 Program Manager Contact Information	on
Name: Gregory St. Louis, PE	Title: Exec. Dir. of Public Works and Engineering
Street Address Line 1: 19 Norman Street	
Street Address Line 2: na	
City: Everett State: MA	Zip Code: 02149
Email: Greg.StLouis@ci.everett.ma.us	Phone Number: (617) 394-2286
Fax Number: (617) 381-1611	
Stormwater Management Program (SWMP) Inform	ation
SWMP Location (web address): http://cityofeverett.com	n/196/Water-Sewer
Date SWMP was Last Updated: June 27, 2019	
If the SWMP is not available on the web please provide not posted on the web:	e the physical address and an explanation of why it is

Part II: Self Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.

	*	. ,	. ,	·
Impairment(<u>(s)</u>			
	☒ Bacteria/Pathogens☒ Solids/ Oil/ Grease (Hg	☐ Chloride ydrocarbons)/ Meta	☐ Nitrogen	⊠ Phosphorus
TMDL(s)				
In State:	☐ Assabet River Phospho☐ Charles River Watersh		eria and Pathogen Lake and Pond	☐ Cape Cod Nitrogen Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			Clo	ear Impairments and TMDLs
unchecked. Ad	upleted that permit require Aditional information will b		-	equirement leave the box
Year 1 Requir				
	op and begin public education of y and develop inventory of years	•		scharged to the MS4 in the
•	• The SSO inventory is	attached to the ema	il submission	
	C The SSO inventory car	n be found at the fo	llowing website:	
⊠ Develo	op written IDDE plan includ	ding a procedure for	screening and sampli	ng outfalls
	ordinance complete			
⊠ Identif priority	y each outfall and intercons y rank each catchment for is	nection discharging nvestigation	from MS4, classify in	to the relevant category, and
	The priority ranking oThe priority ranking o			he email submission t the following website:
⊠ Constr	ruction/ Erosion and Sedime	ent Control (ESC) o	rdinance complete	
$\boxtimes \frac{\text{Develo}}{\text{measur}}$	op written procedures for sir res	te inspections and e	nforcement of sedime	nt and erosion control
	op written procedures for si	•		
•	a log of catch basins cleaned	•		
□ Compl	ete inspection of all stormv	vater treatment struc	ctures	

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☐ Comply with State Public Notice requirements	
⊠ 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	
☑ All curbed roadways have been swept a minimum of one time per year	
Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicab	le)
Annual Requirements	
Public Education and Outreach*	
Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate	
Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time	
Provide 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 (so Appendix H and F for more information)	ее
Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)	
Annual Requirements	
Public Education and Outreach*	
Distribute 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 and phosphorus-free fertilizers	•
Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate	
Distribute 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 (so Appendix H and F for more information)	ee
Good Housekeeping and Pollution Prevention for Permittee Owned Operations	
Increase 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 Attachment 3 to Appendix F already existing or installed in the regulate area by the permittee or its agents shall be tracked and the permittee shall estimate the phosphorus	
☐ removal by the BMP consistent with Attachment 1 to Appendix H. Document 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 in each each annual report	ì

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Good Housekeeping and Pollution Prevention for Permittee Owned Operations Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads	
Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings	I
Use the box below to input additional details on any unchecked boxes above or any additional information would like to share as part of your self assessment:	ı yoı
- No septic systems in Everett.	
- Developing predictive Catch Basin maintenance plan. Data Collection has already begun.	
- Ongoing Catch Basin disconnection from sanitary sewer system identification and removal program.	
- Ongoing sanitary sewer infiltration/inflow identification and removal program.	
-There are currently no City-owned structural BMPs.	

Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any chan submitted?	ges to your lists of receiving waters, outfalls, or impairments since the NOI was
Yes ⊠	No 🗆
If yes, describe below, in	ncluding any relevant impairments or TMDLs:
are more stringent than t	ncluded the proposed Massachusetts Year 2016 additional impairments where they he 2014 listing:) - Non-Native Aquatic Plants was added as an impairment in the 2016 ILW (WQLW)

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 the reporting period: 5			
Below, report on the educational messages completed during the first year. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.			
BMP: Leaf Cleanup			
Message Description and Distribution Method:			
Mystic River Watershed Association (MyRWA) made an educational Facebook post on October 30, 2018. MyRWA also posted a Web Site Banner and text on their website to encourage proper leaf disposal and provide information on pollution cause by leaves.			
The City's website post encourages residents to keep property clean and tidy. Yard Waste collection services are available from Spring through the Fall seasons on specified dates.			
Targeted Audience: Residents			
Responsible Department/Parties: DPW Director/Communications Dept./MyRWA			
Measurable Goal(s):			
Information regarding Yard Waste is typically posted on the City of Everett's Facebook page early in the month of April. This post included rules, collection dates, and contact information.			
The Yard Waste information can also be located on the City's website and was posted on March 28, 2019. 2019 Yard Waste information is available here: http://www.ci.everett.ma.us/DocumentCenter/View/2133/Yard-Waste-Schedule			
Message Date(s): November 2, 2018			
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: Low Impact Development Video Message Description and Distribution Method:
The video is used to inform of the adverse effects of development and it encourages developers to implement low impact development in their designs.
Targeted Audience: Businesses, Institutions, and Commercial Facilities
Responsible Department/Parties: DPW Director/Communications Dept./MyRWA
Measurable Goal(s):
The video was provided by MyRWA and can be downloaded here: https://drive.google.com/file/d/1TOhtIJQXIs7Pu4TZ_w72gXbWn4Mt_RgH/view?usp=sharing
Message Date(s): February 28, 2019
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: Construction Site Stormwater Management Message Description and Distribution Method: MyRWA provided access to a social media post, flyer, and press release regarding educational information about construction BMPs.
Targeted Audience: Developers (construction)
Responsible Department/Parties: DPW Director/Communications Dept./MyRWA
Measurable Goal(s):
The social media post was posted on the Think Blue Massachusetts page and addresses the fact that stormwater pollution often begins at construction sites. The Facebook post can be found here: https://www.facebook.com/ThinkBlueMassachusetts/photos/a.946991875469152.1073741828.931968630304810/958240131010993/?type=3&theate
The Flyer addresses erosion and is to be posted in City Hall, other governmental offices, and other venues as appropriate. The Flyer template can be found here: https://docs.google.com/document/d/1a_tAWMdqHKTCTcdClOUjorwGo2rv5if3yEAtYsrP3XI/edit
The Press Release is to be sent to local publications. This involves a flyer that addresses erosion prevention. The Press Release Flyer template can be found here: https://docs.google.com/document/d/1DkBnw_WYa6eVKkmAwo1jzbQm9ST1XBM00gJE28ADSIA/edit

Message Date(s): October 2018

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: Education - Grass Clippings** Message Description and Distribution Method: MyRWA provided education materials that offer alternatives to disposing of grass clippings to the stormwater system. Targeted Audience: Residents, Businesses, and Industry Responsible Department/Parties: DPW Director/Communications Dept./MyRWA Measurable Goal(s): MyRWA's social media posts designed for Facebook and Twitter encourage residents use grass clippings to compost for fertilizer or bag for curbside pickup. English and Spanish variations were available. Brochures were distributed at Government offices, community spaces and events, and was included with utility bills. A general version of the brochure can be viewed here: https://drive.google.com/file/ d/1syHtq1kToWRDsygERalzAHF5yhmKvW73/view A Web Site post was made available to present on web sites, email lists and other communications. Message Date(s): June 1, 2019 Appendix F Requirements ⊠ Appendix H Requirements Message Completed for: Yes□ No ⊠ Was this message different than what was proposed in your NOI? If yes, describe why the change was made:

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Message Description and Distribution Method:	
The City has brochures available on it's web site and for residents with licensed dogs as of January 24, 201. The brochure provides education on the adverse effects on the environment and the methods of prevention.	
Targeted Audience: Residents	
Responsible Department/Parties: DPW Director/Communications Dept./MyRWA	
Measurable Goal(s):	
The brochure states that there are over 350 licensed dogs in the City of Everett. It also provides some avera statistics to conclude that the City's dogs produce almost 96,000 lbs of dog waste per year. The brochure can be located through the City's web site here: http://www.ci.everett.ma.us/DocumentCenter/View/4836/ms4-dog-waste-swq?bidId=	age
Message Date(s): January 24, 2019	
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 Managem Program (SWMP) during the reporting period:	ient
The City of Everett uses SeeClickFix to provide opportunities of public involvement in the development of Stormwater Management Progran. Everett has partnered with the Mystic River Watershed Association (MyRWA) on projects to address water quality, promote green infrastructure and provide storm water education. MyRWA provides an opportunity to get involved by signing up for e-mails on their website.	f the
Was this opportunity different than what was proposed in your NOI? Yes ☐ No ☒	
Describe any other public involvement or participation opportunities conducted during the reporting period	
For hazardous waste disposal, The City of Everett holds an annual Household Hazardous Waste Day at the City Services Facility. The most recent Waste day date within the reporting period was August 11, 2018. A Facebook post regarding this day was posted on July 12, 2018. Flyers are posted/distributed with informati regarding time, location, and important information about what the residents can bring for disposal.	A

For yard waste collection, the City of Everett designates a couple days a month from April to December each

year. Specific dates can be found on the City's website.

Additionally, the Stormwater FAQ section of the City's website has general information about stormwater and of what a resident can do to prevent storm water runoff pollution.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

MCM3: Inicit Discharge Detection and Elimination (IDDE)
Sanitary Sewer Overflows (SSOs)
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
Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.
Total number of SSOs identified: 27
Total number of SSOs removed: 27
MS4 System Mapping
Describe the status of your MS4 map, including any progress made during the reporting period:
 cloud based platform for improved accessibility and interaction. 1852 catch basins (1,678 Town-owned & 143 State-owned) 27 outfalls (19 subject to MS4 Permit) 1039 storm drain manholes
Screening of Outfalls/Interconnections
If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.
• 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 period.
Number of outfalls screened: 17
Below, report on the percent of total outfalls/ interconnections screened to date.
Percent of total outfalls screened: 100

Catchment Investigations

	e	1 01	period as part of the dry and wet weather erability Factors for each catchment.
_	catchment investigation data is	· ·	
	catchment investigation data ca		
, 1	umber of catchment investigation of catchment investigations co	-	
ramoe	of cateminent investigations co	impreted this i	eporting period. 2.3
Below, report on the pe	ercent of catchments investigate	ed to date.	
Percent	of total catchments investigated	d: 15% est.	
Optional: Provide any	additional information for clari	ty regarding tl	he catchment investigations below:
	of 2018 in preparation for upcon	_	of the drain on Ferry St. and Elm St. was rovements. Bags of dog waste were
period, and cumulative date of discovery; and schedule of removal. • The	to date, including location sour	rce; description or enforcement is attached to	
Below, report on the more removed during this re	·	ified and remo	oved, along with the volume of sewage
Numbe	r of illicit discharges identified:	1	
Numbe	r of illicit discharges removed:	0	
Estimat	ed volume of sewage removed:		[UNITS]
_	tal number of illicit discharges scharges identified and removed	-	removed to date. At a minimum, report on ective date of the permit.
Total n	umber of illicit discharges ident	ified: 5	
Total n	umber of illicit discharges remo	oved: 5	
Optional: Provide any planned to be removed		ty regarding il	llicit discharges identified, removed, or

A potential illicit connection was identified on Robin St. from high flow sewer ex filtration through a

manhole. The repair is being designed.

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Employee Training

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

IDDE training was conducted on June 19, 2019 audience consisted of the IDDE Program Responsible Parties. The goals of the presentation were to help the audience understand the difference between what is and is not an illicit discharge and to teach them how to report a potential illicit discharge.

The presentation consisted of a PowerPoint given by BETA Group that included the following:

- -The Problem: Brief explanation and history of pollution in stormwater runoff and issues as it is directed to waters of the United States. Short video from https://www.thinkbluemassachusetts.org/
 - -The Permit: Brief summary of MS4 Permit focusing on IDDE program and reporting
- -The Practicals: Detailed discussion of what is and is not an illicit discharge. Discussed and provided photos of illicit discharge indicators Discussed how to (and to whom) report a suspected illicit discharge using Illicit Discharge Reporting Form, Discussed how to disseminate this information to field staff

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: 2		
Number of inspections completed:		
Number of enforcement actions taken:		

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

Ordinance Development

Describe the status of the post-construction ordinance required to be con	nplete in year 2 of the permit term
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_	-	-	-	=
Completed.				
This Bylaw is available at the following web address: http://cityofeverett.com/196/Water-Sewer				

As-built Drawings

Describe the status of 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 required to be complete in year 2 of the permit term:

-	Year 2	

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Street Design and Parking Lots Report	
Describe the status of the street design and parking lots assessment due in year any planned or completed changes to local regulations and guidelines:	4 of the permit term, including
Year 4	
Green Infrastructure Report	
Describe the status of the green infrastructure report due in year 4 of the permi and progress towards making the practice allowable:	t term, including the findings
Year 4	
Retrofit Properties Inventory	
Describe the status of the inventory, due in year 4 of the permit term, of permit be modified or retrofitted with BMPs to mitigate impervious areas and report of modified or retrofitted:	
Year 4	
MCM6: Good Housekeeping	
Catch Basin Cleaning	
Describe the status of the catch basin cleaning optimization plan:	
Since 2015, data of before & after sediment depths collected, optimization plan	will be created with more info.
If complete, attach the catch basin cleaning optimization plan or the schedule t the optimization plan:	o gather information to develop
The catch basin cleaning optimization plan or schedule is att	ached to the email submission
The catch basin cleaning optimization plan or schedule can be website:	be found at the following

City of Everett Page 14 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: 670 Number of catch basins cleaned: 670 Total volume or mass of material removed from all catch basins: 478 cy Below, report on the total number of catch basins in the MS4 system, if known. Total number of catch basins: 1,678 If applicable: Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events: The City has been collecting removed volume of material since 2015 and is developing a predictive CB cleaning program. **Street Sweeping** Describe the status of the written procedures for sweeping streets and municipal-owned lots: Complete. Report on street sweeping completed during the reporting period using one of the three metrics below. • Number of miles cleaned: 65.37 O Volume of material removed: [UNITS] • Weight of material removed: |432.41 tons If applicable: For rural uncurbed roadways with no catch basins, describe the progress of the inspection, documentation, and targeted sweeping plan: N/A Winter Road Maintenance Describe the status of the written procedures for winter road maintenance including the storage of salt and sand: Complete.

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Inventory of Permittee-Owned Properties	
Describe the status of the inventory, due in year 2 of the permit term, of permittee-own parks and open spaces, buildings and facilities, and vehicles and equipment, and include	
Complete.	
O&M Procedures for Parks and Open Spaces, Buildings and Facilities, and Vehic	les and Equipment
Describe the status of the operation and maintenance procedures, due in year 2 of the p permittee-owned properties (parks and open spaces, buildings and facilities, vehicles as include maintenance activities associated with each:	
Planned for Year 2	
Stormwater Pollution Prevention Plan (SWPPP)	
Describe the status of any SWPPP, due in year 2 of the permit term, for permittee-own including maintenance garages, public works yards, transfer stations, and other waste hipollutants are exposed to stormwater:	<u> </u>
Planned for Year 2	
Below, report on the number of site inspections for facilities that require a SWPPP com	pleted during this
Number of site inspections completed: 0	
Describe any corrective actions taken at a facility with a SWPPP:	
N/A	
O&M Procedures for Stormwater Treatment Structures	
Describe the status of the written procedure for stormwater treatment structure mainten	nance:
Year 2	

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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.

Tr ·····
C 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):
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
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:
The stormwater management program is part of the overall stormwater/wastewater integrated plan.

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

Yes, I agree ⊠

- Complete system mapping Phase I
- Begin investigations of catchments associated with Problem Outfalls
- Develop or modify an ordinance or other regulatory mechanism for post-construction stormwater runoff from new development and redevelopment
- Establish and implement written procedures to require the submission of as-built drawings no later than two years after the completion of construction projects
- Develop, if not already developed, written operations and maintenance procedures
- Develop an inventory of all permittee owned facilities in the categories of parks and open space,

buildings and facilities, and vehicles and equipment; review annually and update as necessary

- Establish a written program detailing the activities and procedures the permittee will implement so that the MS4 infrastructure is maintained in a timely manner
- Develop and implement a written SWPPP for maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater
- Enclose or cover storage piles of salt or piles containing salt used for deicing or other purposes
- Develop, if not already developed, written procedures for sweeping streets and municipal-owned lots
- Develop, if not already developed, written procedures for winter road maintenance including storage of salt and sand
- Develop, if not already developed, a schedule for catch basin cleaning
- Develop, if not already developed, a written procedure for stormwater treatment structure maintenance
- Develop a written catchment investigation procedure (18 months)

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 in the last 5 years
- 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

Provide any additional details on activities planned for permit year 2 below:						

Part V: Certification of Small MS4 Annual Report 2019

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: Gregory St. Louis, P.E.

Title: Exec. Director DPW

Signature: Date: 09/26/19

[Signatory may be a duly authorized 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: frederick.civian@mass.gov

Paper Signature:

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.