

Year 4 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2021-June 30, 2022

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, 2021 and June 30, 2022 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

EPA NPDES Permit Number:

Primary MS4 Program Manager Contact Information

Name: Title:

Street Address Line 1:

Street Address Line 2:

City: State: Zip Code:

Email: Phone Number:

Stormwater Management Program (SWMP) Information

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical 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:

Impairment(s)

Bacteria/Pathogens
 Chloride
 Nitrogen
 Phosphorus
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

TMDL(s)

In State:
 Assabet River Phosphorus
 Bacteria and Pathogen
 Cape Cod Nitrogen
 Charles River Watershed Phosphorus
 Lake and Pond 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 4 Requirements

Developed a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover, made it available as part of the SWMP, and:

- No updates were recommended
- Updates were recommended. The anticipated date or date of completion for updates is/was:

Developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP, and:

- No updates were recommended
- Updates were recommended. The anticipated date or date of completion for updates is/was:

Identified a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide an update on previous incomplete milestones, or provide any additional details, please use the box below:

The Town has hired a consultant and is in the process of assessing current street design and parking lot guidelines as well as local regulations to determine the feasibility of green infrastructure practices. These BMPs are currently in progress and the SWMP will be modified to reflect the completion of the BMP and the location of where the report can be reviewed upon completion. Expected completion in Permit Year 5.

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
 - 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:
- Updated system map due in year 2 as necessary
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

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:

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:

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
- The street sweeping schedule is attached to the email submission
 - The street sweeping schedule can be found at the following website:

- 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

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:

This requirement is no longer applicable. See "Optional", below, for more information regarding the removal of the impairment and continued enhanced BMP activities the Town is performing.

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Although the receiving waterbody (Weir River, MA74-02, sedimentation/siltation) impairment triggering the enhanced solids, oil and grease, or metals enhanced requirements was removed in the "Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle", the Town continued to prioritize enhanced street sweeping activities within the downtown area and Transfer Station.

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?

- Yes
 No

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

The Town evaluated the "Final Massachusetts Integrated List of Waters from the Clean Water Act 2018/2020 Reporting Cycle" and noted the following change has been made to the Town's waterbody impairments. Note that the removal of the sedimentation/siltation impairment from Weir River segment MA74-02 has resulted in the Town no longer having to complete Appendix H requirements for this impairment. Although some impairments were added to waterbody segments, no additional changes to the Town's Appendix H implementation requirements are required.

- 1. Hingham Bay (MA70-06): "Cause Unknown (Contaminants in Fish and/or Shellfish)" was added.*
- 2. Hingham Bay (MA70-07): "Cause Unknown (Contaminants in Fish and/or Shellfish)" and Estuarine Bioassessments were added.*
- 3. Hingham Harbor (MA74-18): "Cause Unknown (Contaminants in Fish and/or Shellfish)" and E. coli were added.*
- 4. Hull Bay (MA70-09): "Cause Unknown (Contaminants in Fish and/or Shellfish)" and Estuarine Bioassessments were added.*
- 5. Accord Brook (MA74-16): "Aquatic Macroinvertebrate Bioassessments" was removed, and "Benthic Macroinvertebrates" and "Dissolved Oxygen" were added.*
- 6. Weir River (MA74-02): "Sedimentation/Siltation" was removed. "Curly-leaf Pondweed", Dewatering", "Fish Passage Barrier", and "E. coli" were added.*
- 7. Weir River (MA74-13): "Cause Unknown (Contaminants in Fish and/or Shellfish)" was added.*
- 8. Weymouth Back River (MA74-13): "Cause Unknown (Contaminants in Fish and/or Shellfish)" was added.*
- 9. Old Swamp River (MA74-03): "Fish Passage Barrier" and "E. coli" were added.*
- 10. Plymouth River (MA74-20): "E. coli" was added.*

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:**

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: 1A - Brochures for Residents and Businesses

Message Description and Distribution Method:

The Town maintains a website to inform residents about Household Hazardous Waste Collection Days. The website contains a link to a flyer describing accepted and prohibited waste and the location(s) and date(s) of collection events.

On 11/16/21, the Town shared a Facebook post about clearing lead litter from catch basins to reduce flooding. (7 "likes", 4 shares

The Town's Facebook page has approximately 3,200 followers and 2,700 "likes".

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Prepare and distribute appropriate stormwater management messages on an annual basis.

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:

BMP: 1B - Displays for Businesses, Institutions, and Commercial Facilities

Message Description and Distribution Method:

Display posters with stormwater management tips are located in Town Hall at the Conservation Commission office. These posters serve as educational tools to promote stormwater awareness and proper management of potential pollutants that may impact stormwater and waterbodies receiving stormwater discharges.

Targeted Audience:

Responsible Department/Parties: *DPW Superintendent and Conservation Commission - Senior Planner*

Measurable Goal(s):

Update posters and displays with appropriate non-residential stormwater pollution control messages.

Message Date(s): *On-going*

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:IC - Messaging to Developers

Message Description and Distribution Method:

A brochure called "Construction Stormwater Pollution Prevention Guide" continued to be distributed by the Building and Conservation Departments during issuance of construction related permits.

Targeted Audience: *Developers (construction)*

Responsible Department/Parties: *DPW in partnership with NSRWA, Building and Conservation Departments*

Measurable Goal(s):

Prepare and distribute appropriate stormwater management messages to local development community every 2 years.

Message Date(s): *On-going*

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:ID - Press Releases

Message Description and Distribution Method:

WaterSmart, in partnership with the North and South Rivers Watershed Association (NSRWA) and 12 towns on the South Shore, including Hingham, conducted a virtual Gardening Green Expo in March 2022. During this event, residents and other interested parties were able to attend lectures on topics relevant to green gardening techniques, stormwater harvesting, low impact development and green infrastructure, and nutrient reduction techniques. In conjunction with this event, the NSRWA posted information about ordering rain barrels and composters. Press releases for the event were issued in the Glode, the Patriot Ledger, Wicked

Local, and the Hingham Journal. +

Targeted Audience: *General Public*

Responsible Department/Parties: *DPW in partnership with NSRWA, Conservation Commission*

Measurable Goal(s):

Submit one press release every spring and fall to highlight ongoing stormwater activities.

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:

BMP:1E - Town Website

Message Description and Distribution Method:

The Town maintains a website designed to educate people about what stormwater is and the effects of stormwater pollution on waterbodies. The website provides an overview of how runoff can pick up and transport pollutants into waterways. The page emphasizes that storm drains are discharged without being treated so pollutants picked up by runoff can have large effects on waterbodies. It also includes rotating educational messages on a flash screen about best practices for managing pet waste, appropriate management to prevent pollutants generated from lawn and garden care from entering waterbodies, motor oil, and other chemical disposal, and the proper way to discharge pool and spa water. +

Targeted Audience: *General Public*

Responsible Department/Parties: *DPW Superintendent and Website Manager*

Measurable Goal(s):

Promote stormwater awareness by posting relevant stormwater information. Track hits with the goal of increasing website traffic annually.

Message Date(s): *On-going*

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:1F - Pet Waste Management

Message Description and Distribution Method:

The Town provided information pet waste "Scoop It" cards at the Town Clerk's office during issuance or renewal of dog licenses. Approximately 200 of these messages were distributed during the permit year.

Targeted Audience: *Residents/Dog Owners*

Responsible Department/Parties: *Town Clerk and NSRWA*

Measurable Goal(s):

Update and disseminate with dog license information annually and post at public locations.

Message Date(s): *On-going*

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:IF - Proper Septic System Management

Message Description and Distribution Method:

NSRWA posted a series of Facebook messages in conjunction with EPA's SepticSmart Week (September 13-17, 2021) to educate septic system owners on proper maintenance of septic systems and why septic system care is important to protect water quality.

Targeted Audience: *Septic System Owners*

Responsible Department/Parties: *Board of Health and NSRWA*

Measurable Goal(s):

Update and distribute educational messaging biannually to septic system owners.

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:

Messaging was switched from pamphlets to Facebook posts to reach a broader audience due to COVID-19 related Town Hall closure.

BMP:Local Cable Access Programming

Message Description and Distribution Method:

The Town provides citizens with access to Public, Educational, and Government channels through Comcast and Verizon. The Government channel in particular is used to broadcast live coverage of Board of Selectmen and other Board and Commission meetings. The channel also provides bulletin board notification of town news and announcements. Stormwater infrastructure and related costs have been discussed at several of the

Targeted Audience: *Local cable subscribers*

Responsible Department/Parties: *Various Town Departments and Boards*

Measurable Goal(s):

Promote stormwater awareness to the general public.

Message Date(s): *On-going*

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 Town of Hingham had their SWMP available at the Department of Public Works and on their website for public viewing and commentary.

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 period:**

The Town continues to operate their illicit stormwater discharge hotline at (781)804-2437. Calls and requests that require immediate attention are put into the Town's work order system, allowing the Town to track the status of their response to the calls.

WaterSmart, in partnership with the North and South Rivers Watershed Association (NSRWA) and 12 towns on the South Shore, including Hingham, conducted a virtual Gardening Green Expo in March 2022. During this event, residents and other interested parties were able to attend lectures on topics relevant to green gardening techniques, stormwater harvesting, low impact development and green infrastructure, and nutrient

reduction techniques. In conjunction with this event, the NSRWA posted information about ordering rain barrels and composters.

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:

Number of SSOs removed:

MS4 System Mapping

Optional: Provide additional status information regarding your map:

The MS4 System Map is actively updated to include new information as it is identified.

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. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

- No outfalls were inspected
- The outfall screening data is attached to the email submission
- 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:

Below, report on the percent of outfalls/interconnections screened **to date**.

Percent of outfalls screened:

Optional: Provide additional information regarding your outfall/interconnection screening:

Thirty outfalls discharging directly to or within close proximity of bathing beaches were screened during this Permit year. The Town has contracted with a consulting engineer to screen the 71 remaining outfalls during Permit Year 5.

Catchment Investigations

If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.

- No catchment investigations were conducted
- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

*Below, report on the number of catchment investigations completed **during this reporting period.***

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated **to date.***

Percent of total catchments investigated:

Optional: Provide any additional information for clarity regarding the catchment investigations below:

Drainage infrastructure discharging to 20 outfalls was investigated during this reporting period. Data from 11 catchments investigated during the end of Permit Year 3 are included in the attached investigation data.

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.

- No illicit discharges were found
- The illicit discharge removal report is attached to the email submission
- 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:

Number of illicit discharges removed:

Estimated volume of sewage removed: 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:

Total number of illicit discharges removed:

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 this reporting period**:

IDDE training for staff of the DPW was conducted in June 2022, including a training on how to conduct dry weather screenings.

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:

Number of inspections completed:

Number of enforcement actions taken:

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**

Date update was completed (due in year 3):

As-built Drawings

*Below, report on the number of as-built drawings received **during this reporting period**.*

Number of as-built drawings received:

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

The Town has experienced personnel vacancies and changes in the Planning Department that have affected the

review and potential update of applicable bylaws. The Town anticipates conducting a review and implementing identified updates, if applicable, to maintain compliance with the Permit requirements during

Retrofit Properties Inventory

Below, list the permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (at least 5):

- *Bathing Beach Parking Lot, 95 Otis Street*
- *Foster Elementary School, 55 Downer Avenue*
- *Town of Hingham Police Department, 212 Central Avenue*
- *South Shore Country Club, 274 South Street*
- *Hingham Public Library, 66 Leavitt Street*
- *Hingham Town Hall, 210 Central Street*

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:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins: tons

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

Total number of catch basins:

If applicable:

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

If necessary, schedule adjustments will be made to prioritize catch basins located at known problem areas (low spots, etc.) and near construction activities (roadway construction, residential/commercial/industrial development). If inspection and maintenance activities indicate excessive sediment and debris loading, these catch basins will be marked for more frequent cleaning. Where necessary, street sweeping will be utilized to aid in minimizing catch basin sediment loading. Additionally, the Town staff responds to calls where basement flooding has occurred to clean catch basins immediately. A list of known annual issues related to blockages and repair is maintained and the majority of the list has been addressed.

A drainage contract has been written for camera inspection/cleaning and is currently out to bid. The goal is to identify flooding, sinkhole, and collapse issues for a contractor to inspect and repair. This will help to identify basins or line that must be added/replaced before the paving program. This information is in the process of being uploaded to PeopleGIS.

Street Sweeping

Report on street sweeping completed **during this reporting period** using one of the three metrics below.

- Number of miles cleaned:
- Volume of material removed: [Select Units]
- Weight of material removed:

Stormwater Pollution Prevention Plan (SWPPP)

Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.

Number of site inspections completed:

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

No corrective actions were identified as a result of inspections or during routine operations

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

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:

COVID-19 Impacts

Optional: If any of the above year 4 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:

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

Yes, I agree

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)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 5 below:

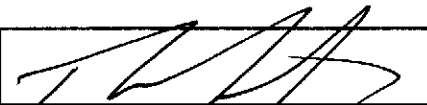
Part V: Certification of Small MS4 Annual Report 2021

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: Thomas Mayo

Title: Town Administrator

Signature: 

Date: 9-29-22

[Signatory may be a duly authorized representative]

Town of Hingham, MA
MS4 General Permit Year 3 and 4
Catchment Investigation Results

Infrastructure ID	Location	Inspection Date	Pipe ID	Standing Water	Flow	Flow Color	Velocity	Ammonia (ppm)	Surfactants (ppm)	Chlorine (ppm)
OF-4159										
SWIN-2733	Deerfield Road	2021-06-01	DP-1067	No	Yes	N/A	Trickling	0	0	0
SWIN-2732	Deerfield Road	2021-06-01	DP-1068	No	Yes	N/A	Trickling	0.1	0	0
SWIN-4158	Deerfield Road	2021-06-01	DP-1069	No	Yes	N/A	Moderate	0.1	0	NT
No Outfall ID										
UNK	Recreation Park Drive	2021-06-03	DP-1710	No	Yes	N/A	Trickling	0.1	0	0
OF-2611										
SWIN-2724	Harvest Lane	2021-06-01	DP-1684	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-2723	Harvest Lane	2021-06-01	DP-1049	No	Yes	N/A	Trickling	0	0	0
SWIN-2722	Harvest Lane	2021-06-01	DP-1050	No	Yes	N/A	Trickling	NT	NT	NT
OF-1295										
UNK	Devon Terrace	2021-06-01	DP-1685	No	Yes	N/A	Moderate	0	0	0
OF-2612										
SWIN-2734	Deerfield Road	2021-06-02	DP-1065	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-2737	Deerfield Road	2021-06-02	DP-1062	No	Yes	N/A	Moderate	NT	NT	NT
SWIN-2614	Deerfield Road	2021-06-02	DP-1063	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-2613	Deerfield Road	2021-06-02	DP-1064	No	Yes	N/A	Trickling	0	0	0
OF-1301										
SWIN-2751	Accord Lane	2021-05-31	DP-1648	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-2750	Accord Lane	2021-05-31	DP-1646	No	Yes	N/A	Trickling	NT	NT	NT
SWDMH-3313	Accord Lane	2021-05-26	DP-1647	No	Yes	N/A	Moderate	0	0	0
No Outfall ID										
SWDMH-4448	Whiting Street	2021-06-16	DP-1886	No	Yes	N/A	Trickling	0	0	0
SWDMH-4447	Whiting Street	2021-06-16	DP-1883	No	Yes	N/A	Moderate	6	0.25	0
OF-4396										
SWIN-3689	Main Street	2021-06-21	DP-1927	No	Yes	N/A	Trickling	0.8	0	0.49
SWDMH-3935	Main Street	2021-06-22	DP-1930	No	Yes	N/A	Trickling	NT	NT	NT
OF-4399										
SWIN-3684	Main Street	2021-06-22	DP-1944	No	Yes	Tea	Moderate	0	0	0.32
SWDMH-1946	Main Street	2021-06-22	DP-1948	No	Yes	Tea	Trickling	NT	NT	NT
SWDMH-1941	Pinegrove Road	2021-06-22	DP-372	No	Yes	Tea	Trickling	0	0	0.13
SWDMH-1948	Pinegrove Road	2021-06-22	DP-367	No	Yes	Tea	Trickling	NT	NT	NT
UNK	Pinegrove Road	2021-06-22	DP-1955	No	Yes	Tea	Trickling	NT	NT	NT
OF-2446										
SWIN-1074	Governor Long Road	2021-06-09	DP-896	No	Yes	N/A	Moderate	0	0	0.1
SWIN-1086	Governor Long Road	2021-06-09	DP-891	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1072	Governor Long Road	2021-06-09	DP-893	No	Yes	N/A	Trickling	0	0	0
SWIN-1008	Downer Ave	2021-06-10	DP-1751	No	Yes	N/A	Trickling	NT	NT	NT
UNK	Downer Ave	2021-06-10	DP-1750	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1009	Downer Ave	2021-06-10	DP-1752	No	Yes	N/A	Trickling	0	0	0
SWDMH-1164	Downer Ave	2021-06-10	DP-1754	No	Yes	N/A	Trickling	NT	NT	NT
SWDMH-1164	Downer Ave	2021-06-10	DP-1753	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1010	Downer Ave	2021-06-10	DP-1757	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1069	Governor Andrew Road	2021-06-10	DP-897	No	Yes	N/A	Trickling	0	0	0.07
SWIN-1068	Governor Andrew Road	2021-06-10	DP-899	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1067	Governor Andrew Road	2021-06-10	DP-900	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1066	Governor Andrew Road	2021-06-10	DP-889	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1065	Governor Andrew Road	2021-06-10	DP-887	No	Yes	N/A	Trickling	0	0	0.03
SWIN-1064	Governor Andrew Road	2021-06-10	DP-642	No	Yes	N/A	Trickling	0.1	0.25	0
SWIN-1063	Governor Andrew Road	2021-06-10	DP-640	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-2344	Governor Andrew Road	2021-06-10	DP-639	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-2345	Downer Ave	2021-06-10	DP-643	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1012	Downer Ave	2021-06-10	DP-1759	No	Yes	N/A	Trickling	0	0	0
SWDMH-4401	Downer Ave	2021-06-10	DP-1604	No	Yes	N/A	Moderate	0.6	0.25	0
SWDMH-4455	Downer Ave	2021-06-10	DP-2024	No	Yes	N/A	Heavy	0.1	0.25	0.4
SWDMH-2444	Downer Ave	2021-06-10	DP-800	No	Yes	N/A	Heavy	NT	NT	NT
UNK	Downer Ave	2021-06-10	DP-2025	No	Yes	N/A	Moderate	0	0	0.29
OF-1306										
UNK	Governor Long Road	2021-06-09	DP-1740	No	Yes	N/A	Trickling	0.1	0	0
SWIN-1079	Governor Long Road	2021-06-09	DP-902	No	Yes	N/A	Trickling	2	0.75	0.44
SWIN-1081	Governor Long Road	2021-06-09	DP-904	No	Yes	N/A	Trickling	0.4	0.25	0.05
SWIN-1082	Governor Long Road	2021-06-03	DP-905	No	Yes	N/A	Moderate	NT	NT	NT
SWIN-1088	Otis Hill Road	2021-06-09	DP-1736	No	Yes	N/A	Trickling	0	0	0
SWIN-1083	Governor Long Road	2021-06-03	DP-906	No	Yes	N/A	Moderate	NT	NT	NT
SWIN-1084	Governor Long Road	2021-06-03	DP-907	No	Yes	N/A	Moderate	NT	NT	NT
SWIN-1036	Otis Street	2021-06-03	DP-935	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1037	Otis Street	2021-06-03	DP-908	No	Yes	N/A	Moderate	0	0	0.06
SWIN-4023	Otis Street	2021-06-04	DP-909	No	Yes	N/A	Moderate	NT	NT	NT
SWDMH-4024	Otis Street	2021-06-03	DP-910	No	Yes	N/A	Moderate	0	0	0
SWIN-4025	Otis Street	2021-06-03	DP-911	No	Yes	N/A	Moderate	0	0	0
SWIN-1046	Otis Street	2021-06-04	DP-931	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-1047	Otis Street	2021-06-09	DP-930	No	Yes	N/A	Trickling	NT	NT	NT
OF-1310										
SWDMH-2272	Lincoln Street	2022-01-12	DP-2835	Yes	No	N/A	N/A	NT	NT	NT
OF-4411										
SWIN-262	Bel Air Road	2021-11-30	DP-2110	No	Yes	N/A	Trickling	NT	NT	NT
SWIN-241	Bel Air Road	2021-11-30	DP-2097	No	Yes	N/A	Trickling	0	0.25	0.01

Town of Hingham, MA
MS4 General Permit Year 4
Dry Weather Outfall Screening and Sampling Results

Sample ID	Inspection Date	Inspection/Sampling Location	Precipitation in Previous 24 Hours (in.)	Flow	Flow Velocity	Surfactants (mg/L)	Ammonia (mg/L)	Chlorine (mg/L)	pH	Specific Conductivity (mS/cm ³)	Temperature (°F)	Salinity (ppt)	Enterococcus (MPN/100 mL)
OF-1176 ¹	2022-05-12	SWDMH-4565	<0.1 inch	Yes	Trickling	3.75	0.6	1.91	7.02	894	63	0.50	63,000
OF-1257	2022-04-21	Outfall	<0.1 inch	Yes	Moderate	<0.05	0	0	7.17	3,610	57	2.04	50
OF-2219	2022-04-21	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1259 ¹	2022-04-21	SWIN-257	<0.1 inch	No	Dry	--	--	--	--	--	--	0	ND
OF-1302	2022-04-21	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1304	2022-05-10	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1305	2022-05-10	Outfall	<0.1 inch	Yes	Trickling	<0.05	0.1	0.1	7.4	478	50	0.27	ND
OF-1306	2022-05-10	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1307 ¹	2022-05-19	SWDMH-1172	<0.1 inch	Yes	Trickling	0.15	4	0.97	7.3	1,789	61	1.00	4,000
OF-1313 ¹	2022-05-19	SWIN-2382	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1315	2022-04-21	Could Not Locate	<0.1 inch	N/A	N/A	--	--	--	--	--	--	0	--
OF-1316	2022-04-21	Outfall	<0.1 inch	Yes	Heavy	3	0	0	6.94	--	54	0	250
OF-1334 ¹	2022-04-21	SWIN-695	<0.1 inch	Yes	Heavy	0.07	0.1	0	6.98	682	63	0.38	10
OF-1335 ¹	2022-05-12	SWIN-684	<0.1 inch	Yes	Moderate	0	0	0	6.48	448	60	0.25	ND
OF-1336	2022-05-11	Outfall	<0.1 inch	Yes	Trickling	0.25	0.1	0.36	7.05	567	59	0.32	20
OF-1337	2022-04-21	Outfall	<0.1 inch	Yes	Trickling	0.08	0	0.02	7.64	848	52	0.47	30
OF-1365 ¹	2022-04-21	SWIN-147	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1445	2022-04-21	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-1446	2022-04-21	Outfall	<0.1 inch	Yes	Heavy	3	0.1	0.5	6.99	18,400	55	10.94	ND
OF-1447	2022-04-21	Outfall	<0.1 inch	Yes	Heavy	3	0.1	0.2	7.44	--	57	0	ND
OF-1448	2022-04-21	Outfall	<0.1 inch	Yes	Moderate	3	0.1	0.49	7.6	--	57	0	10
OF-2437	2022-05-10	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-2446	2022-05-10	Outfall	<0.1 inch	Yes	Moderate	<0.05	0.4	0.02	7.04	3,030	54	1.71	10
OF-2447	2022-05-10	Outfall	<0.1 inch	Yes	Moderate	<0.05	0.2	0	7.01	633	55	0.35	ND
OF-4391	2022-05-10	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-4407 ¹	2022-05-10	SWIN-1528	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-4411 ¹	2022-05-10	SWIN-262	<0.1 inch	Yes	Trickling	<0.05	0	0	6.71	668	57	0.37	45
OF-4417	2022-04-21	Outfall	<0.1 inch	No	Dry	--	--	--	--	--	--	0	--
OF-4433	2022-05-10	Outfall	<0.1 inch	Yes	Trickling	<0.05	0	0	7.48	604	58	0.34	310
OF-4436	2022-05-19	Outfall	<0.1 inch	Yes	Trickling	<0.05	0	0.68	8.32	--	60	0	45
OF-1302	--	--	--	--	--	--	--	--	--	--	--	--	--

- Outfalls with analytical testing values above individual identified Permit threshold criteria.
- Outfalls with elevated analytical testing values above Permit defined likely sewer input indicators.
- Outfall/Beach Samples with elevated analytical testing values above Permit/Massachusetts Surface Water Quality Standards

Notes:

1. Outfall inaccessible or could not be located. The next upstream drainage structure was inspected to determine the presence of dry weather flows.
2. (S/B) = Saline/brackish receiving water.
3. N/A = Not applicable.
4. ND = Non-detect.
5. NT = Not tested.
6. -- = No sample collected.