

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: Town of Weymouth

EPA NPDES Permit Number: MA041070

Primary MS4 Program Manager Contact Information

Name: Andrew P. (Chip) Fontaine, P.E. Title: Town Engineer

Street Address Line 1: 120 Winter Street

Street Address Line 2:

City: Weymouth State: MA Zip Code: 02188

Email: cfontaine@weymouth.ma.us Phone Number: (781) 337-5100

Fax Number: (781) 337-6940

Stormwater Management Program (SWMP) Information

SWMP Location (web address): <https://www.weymouth.ma.us/water-sewer/pages/storm-water-management-program>

Date SWMP was Last Updated: June 2019

If the SWMP is not available on the web please provide the physical address and an explanation of why it is not posted on the web:

Part II: Self Assessment

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

<u>Impairment(s)</u>			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Chloride	<input type="checkbox"/> Nitrogen	<input type="checkbox"/> Phosphorus
<input type="checkbox"/> Solids/ Oil/ Grease (Hydrocarbons)/ Metals			
<u>TMDL(s)</u>			
<i>In State:</i>	<input type="checkbox"/> Assabet River Phosphorus	<input type="checkbox"/> Bacteria and Pathogen	<input type="checkbox"/> Cape Cod Nitrogen
	<input type="checkbox"/> Charles River Watershed Phosphorus	<input type="checkbox"/> Lake and Pond Phosphorus	
<i>Out of State:</i>	<input type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Metals	<input type="checkbox"/> Nitrogen
			<input type="checkbox"/> 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 1 Requirements

- ☒ Develop and begin public education and outreach program
- ☒ Identify and develop inventory of all known locations where SSOs have discharged to the MS4 in the last 5 years
 - ☐ The SSO inventory is attached to the email submission
 - ☒ The SSO inventory can be found at the following website:

SWMP Appendix: <https://www.weymouth.ma.us/water-sewer/pages/storm-water-management-program>
- ☐ Develop written IDDE plan including a procedure for screening and sampling outfalls
- ☒ IDDE ordinance complete
- ☐ Identify each outfall and interconnection discharging from MS4, classify into the relevant category, and priority rank each catchment for investigation
 - ☒ The priority ranking of outfalls/interconnections is attached to the email submission
 - ☐ The priority ranking of outfalls/interconnections can be found at the following website:
- ☒ Construction/ Erosion and Sediment Control (ESC) ordinance complete
- ☐ Develop written procedures for site inspections and enforcement of sediment and erosion control measures
- ☒ Develop written procedures for site plan review
- ☒ Keep a log of catch basins cleaned or inspected
- ☐ Complete inspection of all stormwater treatment structures

Annual Requirements

- ☒ Annual opportunity for public participation in review and implementation of SWMP
- ☒ 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 Applicable)

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 (see Appendix H and F for more information)*

Use the box below to input additional details on any unchecked boxes above or any additional information you would like to share as part of your self assessment:

Due to insufficient funding in PY1, IDDE plan will be completed in PY2. This will include priority ranking of outfalls and interconnections.

Year 1 Requirements, Develop written procedures for site inspections and enforcement of sediment and erosion control and site plan review: The Town implements and enforces its local ordinances and regulations in regards to sediment and erosion control in accordance with General Permit requirements. Written procedures for site inspections and enforcement of erosion and sediment control will be formalized in Permit Year 2 so procedures are consistent across departments for various local permits.

Year 1 Requirements, Inspect all stormwater treatment structures: Mapping of structural BMPs and stormwater treatment structures is ongoing and not due until Permit Year 2. This inventory for Phase I mapping and SOPs for maintenance of stormwater BMPs will be developed as part of the Town-Wide Good Housekeeping Program in Permit Year 2. Therefore, all BMPs were not inspected during Permit Year 1.

Bacteria/Pathogens Public Education and Outreach: Disseminating information about proper pet waste management during dog license renewals, required by Appendix H for discharges to waterbodies impaired by bacteria/pathogens, was completed during Permit Year 1 for license renewal at the Town Clerk's office using educational cards from NSRWA. It is now possible to renew dog licenses on-line, so the Town plans to add a link to pet waste education to the Dog Licenses website: <https://www.weymouth.ma.us/town-clerk/pages/dog-licenses>

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:

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:

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: Education and Outreach (multi-media methods)

Message Description and Distribution Method:

1. Water All Around You Program: WaterSmart presented an educational program to 5th grade students at the Abigail Adams Elementary School on five separate days in March 2019. Students played Watershed Jeopardy and engaged with 6 different hands-on learning stations. A press release was also sent out to the Town about the event, and four newspapers.
2. Gardening Green Expo: This event was held by WaterSmart on March 30, 2019 to educate the public on drought tolerant native plants, rain barrels, and meadowscaping. The event was promoted in the press and online.
3. Pet Waste Outreach Program: Pet Waste Scoop It Cards were available for distribution at the Town clerk's office, South Coast Animal Health, VCA South Shore, and Petco Animal Supplies. An article was written on the problem of dog waste on the South Shore, and sent to The Globe, the Patriot Ledger, Wicked Local, and the Weymouth Mariner. The Patriot Ledger wrote a feature on it from the Town's press release, and WATD did an on air interview.
4. Social Media Posts: In May 2018, messages about grass clippings and fertilizer were posted on the NSRWA Facebook page and the Everything Weymouth Facebook page. An advertisement about grass clippings was also posted on Facebook to target Weymouth residents.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

1. Water All Around You Program: More than 2,500 students participated in the program. The program was also posted on the NSRWA Facebook page and reached 573 people, with 21 engagements. It was also posted on the Everything Weymouth Facebook page.
2. Gardening Green Expo: Over 500 people attended this program. A rain barrel sale was also held at the program, and 76 rain barrels were sold.
3. Pet Waste Education: The on-air interview was posted on the NSRWA Facebook page with a reach of 1,556 people and 197 engagements, and on the Everything Weymouth Facebook page.
4. The grass clippings and fertilizer messages had 19 web page views on the Weymouth Stormwater Page. The advertisement about grass clippings reached 2,780 residents, with 377 engagements.

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 the reporting period:

The Stormwater Management Plan (SWMP) is posted online and residents are encouraged to submit questions to the Engineering Department.

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:

On Saturday April 6, 2019, the Weymouth Herring Run cleanup was held. This event was advertised on Facebook on April 2 and there was an article, "Volunteers needed for annual cleanup of Weymouth Herring Run" in Wicked Local Weymouth. Radio Station Mix 104.1's "street team" broadcast live from the event and gave prizes.

Community Cleanup Day on April 27, 2019 at various locations. The DPW provided gloves, trash and yard waste bags for all registered projects. Lunch was provided for all volunteers at O'Sullivan Park. Whitman's Pond Association posted their pond cleanup during the Community Cleanup Day on Facebook (12 likes).

The Town hosts a Household Hazardous Waste Collection Day twice a year. On October 27, 2018 142 cars brought 37 small loads (SL), 56 half loads (HL), and 77 full load equivalents (FLE). On April 6, 2019, 139 cars brought 44 SLs, 54 HLs, and 53 FLEs. The Household Hazardous Waste Collection Days are already scheduled for Permit Year 2 on November 2, 2019 and April 4, 2020.

MCM3: Illicit 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: 5

Number of SSOs removed: 5

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: 11

Total number of SSOs removed: 11

MS4 System Mapping

Describe the status of your MS4 map, including any progress made during the reporting period (phase I map due in year 2):

Phase I mapping is nearly complete, including outfalls, receiving waters, known open channel conveyances, interconnections, some public and private BMPs, and impaired water bodies. Spatial location (lat/long) of outfalls in inventory are available in the City's geodatabase. Many components of Phase 2 mapping are also complete, including all pipes, manholes, catch basins, and sanitary sewer. The Town will continue to improve the map in Permit Year 2.

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:

No screening data in Permit Year 1.

Below, report on the number of outfalls/interconnections screened during this reporting period.

Number of outfalls screened: 0

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

Percent of total outfalls screened: 0

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.

- ☐ The catchment investigation data is attached to the email submission
- ☐ The catchment investigation data can be found at the following website:

Not applicable

Below, report on the number of catchment investigations completed during this reporting 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 investigations below:

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.

- ☐ 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: None

Number of illicit discharges removed: None

Estimated volume of sewage removed: N/A [UNITS]

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.

Total number of illicit discharges identified: None

Total number of illicit discharges removed: None

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

Employee Training

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

Materials for employee training have been compiled. Training will be done in Permit Year 2.

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: 8 sites

Number of inspections completed: 19+

Number of enforcement actions taken: 0

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

Describe the status of the post-construction ordinance required to be complete in year 2 of the permit term:

The Town will review existing ordinances and regulations and determine whether updates or additions are needed to meet the requirements of the General Permit in Permit Year 2.

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:

DPW regulations have been drafted under the Chapter 8 Section 700 Stormwater Management Ordinance to formalize current requirements for as-builts and long-term O&M and to improve interdepartmental coordination and consistency.

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:

Preparation for the Street Design and Parking Lots Report has not yet begun as this requirement is due in Permit Year 4.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

Preparation for the Green Infrastructure Report has not yet begun as this requirement is due in Permit Year 4.

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:

Preparation for the Retrofit Properties Inventory has not yet begun as this requirement is due in Permit Year 4.

MCM6: Good Housekeeping

Catch Basin Cleaning

Describe the status of the catch basin cleaning optimization plan:

The catch basin cleaning optimization plan will be formalized during development of a written operation and m

If complete, attach the catch basin cleaning optimization plan or the schedule to gather information to develop the optimization plan:

- ☐ The catch basin cleaning optimization plan or schedule is attached to the email submission
- ☐ The catch basin cleaning optimization plan or schedule can be found at the following website:

Not applicable

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: 525

Number of catch basins cleaned: 525

Total volume or mass of material removed from all catch basins: 1,500 CY

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

Total number of catch basins: 5,014*

If applicable:

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

SOPs to improve data collection and take action when a catch basin is more than 50% full will be developed as part of the written operation and maintenance plan in Permit Year 2.

Street Sweeping

Describe the status of the written procedures for sweeping streets and municipal-owned lots:

Written procedures for street sweeping will be formalized during development of a written operation and maintenance plan in Permit Year 2. All streets are swept annually and major arterial roads are swept more frequently. Two sweepers are in operation regularly throughout the year.

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

- ☐ Number of miles cleaned:
- ☐ Volume of material removed: [UNITS]
- ☒ Weight of material removed: 1,364 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:

Written procedures for winter road maintenance will be formalized during development of a written operation and maintenance plan in Permit Year 2. Measures have been taken to ensure that sand and salt are properly stored and will not reach waterbodies as runoff.

Inventory of Permittee-Owned Properties

Describe the status of the inventory, due in year 2 of the permit term, of permittee-owned properties, including parks and open spaces, buildings and facilities, and vehicles and equipment, and include any updates:

The Town possesses institutional knowledge of Town-owned properties to be included in the inventory. The Town will develop a written inventory during Permit Year 2.

O&M Procedures for Parks and Open Spaces, Buildings and Facilities, and Vehicles and Equipment

Describe the status of the operation and maintenance procedures, due in year 2 of the permit term, of permittee-owned properties (parks and open spaces, buildings and facilities, vehicles and equipment) and include maintenance activities associated with each:

Operation and maintenance procedures associated with the properties included in the inventory will be formalized during development of a written operation and maintenance plan in Permit Year 2.

Stormwater Pollution Prevention Plan (SWPPP)

Describe the status of any SWPPP, due in year 2 of the permit term, for permittee-owned or operated facilities including maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater:

The Town will identify what properties and facilities are in need of a SWPPP and will prepare these in accordance with the General Permit by June 30, 2020.

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

Number of site inspections completed: 0

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

Not applicable

O&M Procedures for Stormwater Treatment Structures

Describe the status of the written procedure for stormwater treatment structure maintenance:

Written procedures for operation and maintenance of stormwater treatment structures will be formalized during development of a written operation and maintenance plan in Permit Year 2.

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:

*The total catch basins in Weymouth's GIS includes approximately 1,900 identified as state and private owned.

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:

The town acknowledges the Permit Year 2 requirements in the General Permit and intends to complete as many activities as possible based on funding and staff availability.

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:

Robert Hedlund

Title: Mayor

Signature:



Date:

9-30-19

[Signatory may be a duly authorized representative]