

Annual Report City of New Bedford, Massachusetts



MS4 General Permit Compliance

Year 1

(May 1, 2018 to June 30, 2019)

September 30, 2019



**CDM
Smith**

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Attachments (Under Separate Cover)

Attachment A – SSO Inventory

Attachment B – Priority Ranking of Outfalls/Interconnections

Attachment C – Nitrogen Removal by BMP

Attachment D – Outfall Monitoring Results

Attachment E – Catch Basin Cleaning Optimization Plan

Attachment F – Catchment Investigation Results

Section 1

Contact Information

The City's EPA NPDES Permit number is MAR041140.

The City of New Bedford submits this Annual Report under the Massachusetts Small MS4 General permit for the following reporting period:

Permit Year: Year 1

Reporting Period: May 1, 2018 to June 30, 2019

Primary MS4 Program Manager

Name:	Jamie Ponte	
Title:	Commissioner	
Department:	Public Infrastructure	
Email:	Jamie.Ponte@newbedford-ma.gov	
Phone Number:	508-979-1550	
Street Address Line 1:	1105 Shawmut Avenue	
City: New Bedford	State: MA	Zip Code: 02746

Stormwater Management Program (SWMP) Information

The SWMP was last updated: June 28, 2019

The SWMP can be found at the web address: <http://www.newbedford-ma.gov/public-infrastructure/wp-content/uploads/sites/49/Final-New-Bedford-SWMP-6-28-19.pdf>

Section 2

Self-Assessment

Table 1 states the impairments and the TMDL that are applicable to the City's MS4 permit.

Table 1: Summary of Impairments of Receiving Waters

Impairments	TMDLs – In state
Bacteria/Pathogens	Bacteria/Pathogens
Nitrogen	
Solids/Oil/Grease (Hydrocarbons)/ Metals	

The following sections discuss those tasks required to be completed under the MS4 Permit. Those requirements shown with a indicate a completed task.

Year 1 Requirements

Year 1 permit requirements are listed below. Additional information on each of the requirements are discussed in later sections.

- Develop and begin public education and outreach program.
- Identify and develop an 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 (Attachment A)
- 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. (Attachment B)
- 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

Items to be completed on a recurring annual basis are noted below.

- ☒ 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

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. (N/A)

Nitrogen

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 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.

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 Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen 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 nitrogen removed in mass per year by the BMP in each annual report.
- ☒ The estimate of nitrogen removal is attached to the email submission. (Attachment C)

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

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% full. Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.

Section 3

Receiving Waters/Impaired Waters/TMDL

Changes have been made to the lists of receiving waters, outfalls, and impairments since the NOI was submitted:

- Turner’s Pond was added to the list of receiving waterbodies. No outfalls or interconnections are tributary to this receiving water.
- Following field activities and a more detailed review of available record drawings, five City-owned outfalls/interconnections were removed. The removed locations fell into one of two categories: 1) outfalls owned by other MS4s (e.g., MassDOT) that had been incorrectly mapped as owned by the City, or 2) the downstream end of culverts with no internal pipe connections (i.e., are strictly receiving water conveyance).
- Following clarification of definition of an “outfall”, 181 additional City-owned discharge locations have been added. These discharges are connected to combined sewer outfall pipes, downstream of regulating structures. Note: discharges were identified based on existing GIS mapping. An update will be provided following field inspection(s) as appropriate.

Table 2 summarizes the most current list of receiving waters, outfalls, and impairments.

Table 2: List of Receiving Waters, Outfalls and Impairments

Waterbody segment that receives flow from MS4	# Outfalls/ Interconnections	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Other pollutants causing impairments
Acushnet River (MA95-33)	39	X	X	X	Fecal Coliform, (Debris/Floatables/trash), Color, Polychlorinated biphenyls, Taste and Odor, Other
Buttonwood Brook (MA95-13)	16				Fecal Coliform
Clarks Cove (MA95-38)	16				Fecal Coliform, PCB Fish tissue
New Bedford Inner Harbor (MA95-42)	146	X	X	X	(Debris/floatables/ trash), Fecal Coliform, PCB in fish tissue, Other
Outer New Bedford Harbor (MA95-63)	32	X	X		Estuarine Bioassessments, Fecal Coliform, PCB in Fish tissue, Other
Buttonwood Park Pond (MA95020)	1				N/A
Sassaquin Pond (MA62232)	10				Excess algal growth, Fecal Coliform, Taste and Odor
Copper Brook	7				N/A
Nash Pond	3				N/A



Waterbody segment that receives flow from MS4	# Outfalls/ Interconnections	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Other pollutants causing impairments
Brooklawn Brook	2				N/A
Paskamanset River (MA95-11)	21				N/A
Acushnet Cedar Swamp	33				N/A
Deep Brook	2				N/A
Wetlands/Open Space	27				N/A
Turner's Pond (MA95151)	0				Mercury in Fish tissue
Total Number of Outfalls	355				

Section 4

Minimum Control Measures

MCM 1: Public Education

In total, 7 educational messages were completed during the reporting period.

BMP: 1-1: Nitrogen Brochures/Pamphlets

Message Description and Distribution Method

A Nitrogen lawn management poster was developed and displayed in the Parks, Recreation & Beaches main office and distributed at public events.

Targeted Audience

Businesses/Commercial/Institutional & Residential

Responsible Department/Parties

Departments of Public Infrastructure and Parks, Recreation and Beaches

Measurable Goals

Distribute pamphlet during the March/April timeframe and made available continuously through the spring and summer months at the DPI office.

Message Date(s)

The pamphlet was displayed in the spring (March/April) and continuously available at the DPI office during the spring and summer months. The pamphlets were also distributed at various public events held between May 2018 and September 2018. An additional event was held in April 2019.

Comments

This message was completed for Appendix H requirements and is not different than what was proposed in the NOI.

BMP 1-2: Bacterial/Nitrogen Brochures/Pamphlets

Message Description and Distribution Method

A Scoop the Poop pamphlet was developed. The pamphlet was distributed to dog owners at the time of issuance or renewal of dog license. Pamphlets were disseminated to residents and businesses along the Inner & Outer Harbors local events and discussed at school educational presentations.

Proper disposal of animal feces is also discussed with students at school presentations.

Targeted Audience

Residential



Responsible Department/Parties

Departments of Public Infrastructure

Measurable Goals

Distribute pamphlet to dog owners at the time of issuance or renewal of a dog license. Pamphlets are also available at the DPI office as well as at various public events throughout the year.

Message Date(s)

The pamphlet was continuously available at City Hall, and the DPI office with emphasis on distributing during spring and summer months. School presentation dates were held in June 2018, August 2018, and May 2019.

Comments

This message was completed for Appendix H requirements and is not different than what was proposed in the NOI.

BMP: 1-3: Leaf Litter Brochures/Pamphlets

Message Description and Distribution Method

A pamphlet describing proper disposal of leaf litter poster was developed and displayed at DPI office at the Billing Window and distributed at various public events.

Targeted Audience

Businesses/Commercial/Institutional

Responsible Department/Parties

Departments of Public Infrastructure and Parks, Recreation and Beaches

Measurable Goals

Distribute pamphlet during the August/September/October timeframe

Message Date(s)

The pamphlets were available continuously at the DPI office and distributed at public events in August 2018, September 2018 and October 2018.

Comments

This message was completed for Appendix H requirements and is not different than what was proposed in the NOI.

BMP: 1-4: Dumpster Management Brochures/Pamphlets

Message Description and Distribution Method

A pamphlet describing good stormwater housekeeping practices, including dumpster management, was developed. Pamphlets will be distributed during IPP inspections, FOG inspections (leave at BOH office) and at issuance of permit for temporary dumpsters.

Targeted Audience

Businesses/Commercial/Institutional

Responsible Department/Parties

Departments of Public Infrastructure and Board of Health

Measurable Goals

Distribute pamphlet to the target audience at least once over the permit term.

Message Date(s)

The pamphlet will be distributed during a later permit year.

Comments

This message is not different than what was proposed in the NOI.

BMP: 1-5: Rain Barrel Program

Message Description and Method of Distribution

A pamphlet promoting the City's rain barrel program was developed. It was distributed at the DPI counter. A story was shown on a local news station promoting the rain barrel program. The program was announced on the City's web site and Twitter account.

Targeted Audience

Residential & Business/Commercial/Institutional

Responsible Department/Parties

Departments of Public Infrastructure

Measurable Goals

The pamphlets are distributed annually during the rain barrel program period; typically in the spring.

Message Date(s)

Rain barrels were available for purchase during the spring months (April/May). Pamphlet distribution took place during March, April, and May of 2018 and 2019.

Comments

The subject of the public message has changed from what was originally submitted in the NOI.

BMP: 1-6: Proper Disposal Brochures/Pamphlets

Message Description and Method of Distribution

An informational brochure included information on the proper disposal of water from car washing, dog washing, pools and sump pumps was developed.

Proper disposal of water from car/bike washing, dog washing, patio washing, sidewalk washing, and driveway washing is discussed during school presentations and summer camp presentations.

Targeted Audience

Residential

Responsible Department/Parties

Departments of Public Infrastructure

Measurable Goals

Distribute pamphlet to the target audience at least once over the permit term.

Message Date(s)

The pamphlet will be distributed during a later permit year.

The school presentations were conducted May 2018, June 2018, July 2018, August 2018 and May 2019.

Comments

The subject of the public message has changed from what was originally submitted in the NOI.

BMP: 1-7: Hazardous Waste Disposal Day Brochures/Pamphlets

Message Description and Distribution Method

An informational brochure encouraging residents and industries to participate in hazardous waste disposal days was developed.

Targeted Audience

Residents, Business/Commercial/Institutional, and Industrial

Responsible Department/Parties

Departments of Public Infrastructure

Measurable Goals

Distribute pamphlet to the target audience at least once over the permit term.

Message Date(s)

The pamphlets were distributed during May 2018, August 2018, September 2018, April 2019 and May 2019 at the DPI office.

Comments

The subject of the public message has changed from what was originally submitted in the NOI.

BMP: 1-8: City Construction Standards Meeting

Message Description and Distribution Method

The City coordinated a meeting of contractors allowed to work in the City to discuss existing specifications and work requirements, including stormwater requirements.

Targeted Audience

Developers/Contractors

Responsible Department/Parties
Departments of Public Infrastructure

Measurable Goals
Hold annual meeting.

Message Date(s)
The meeting took place in the Spring months (April/May).

Comments
This BMP as originally submitted in the NOI consisted of distributing a pamphlet. However, it was felt that in-person discussion would be more effective.

BMP: 1-9: Parking Lot Care and Maintenance Brochures/Pamphlets

Message Description and Distribution Method
A pamphlet including information on the care and proper maintenance of parking lots was developed.

Targeted Audience
Business/Commercial/Institutional & Industrial

Responsible Department/Parties
Departments of Public Infrastructure

Measurable Goals
The pamphlet will be distributed during a later permit year.

Message Date(s)
The pamphlet will be distributed during a later permit year.

Comments
The subject of the public message has changed from what was originally submitted in the NOI.

MCM 2: Public Participation

The Stormwater Management Program is publicly available. Meetings and reviews that the public had the option to attend were posted in accordance with state public notice requirements (MGL Chapter 30A, Sections 18-25). This opportunity matches what was proposed in the NOI.

The DPI attended various City events, including but not limited to, Party for the Planet, school presentations, Resiliency Days, Home Shows, and Farmers Markets throughout the year. Informational brochures (see above under MCM #1) were distributed at these events and employees of the DPI were available to discuss various aspects of the City's SWMP with the public. This program was coordinated with the Captain Plunger effort. The City provided school outreach programs including presentations and demonstrations about various aspects of clean water initiatives.

MCM 3: Illicit Discharge Detection and Elimination

Sanitary Sewer Overflows (SSOs)

During this reporting period:

- Number of SSOs identified in the MS4 system: 7
- Number SSOs removed: 7

SSO Record Keeping:

- Reporting Period (Last 5-years): 2013 – June 2019
- Number SSOs identified in the MS4 system: 31
- Number of SSOs removed: 31

MS4 System Mapping

The City's MS4 includes the following elements:

- Outfalls and receiving waters
- Open channel conveyances
- Interconnections with other MS4s
- Municipally-owned stormwater treatment structures
- Receiving waterbodies and indication of use impairments
- Initial catchment delineations
- Drainage pipes, manholes, and catch basins
- Sanitary and combined sewer pipes, manholes, and catch basins

Screening of Outfalls/Interconnections

Outfall monitoring results from this reporting period are attached to the email submission (Attachment D). The results 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 analyses.

- Outfalls/interconnections screened during this reporting period: 49% (174 of 355)
- To date, total outfalls/interconnections screened: 49% (174 of 355)

Catchment Investigations

Data collected for catchment investigations during this reporting period are attached to the email submission (Attachment F).

- Catchment investigations were completed during this reporting period: 2% (6 of 355)
- To date, total catchments have been investigated: 2% (6 of 355)

IDDE Progress

During this reporting period:

- Number of illicit discharges identified: None
- Estimated volume of illicit discharges removed: None

To date (from May 2018 to June 2019):

- Number of illicit discharges identified: None
- Estimated volume of illicit discharges removed: None

Employee Training

A presentation on the IDDE program, including how to recognize illicit discharges and SSOs was developed and given to employees throughout June 2019.

MCM 4: Construction Site Stormwater Runoff Control

Over the Year 1 permit period, there have been no qualified projects greater than or equal to the 1-acre threshold. In Year 1 standard operating procedures (SOPs) for site plan reviews, inspections, and enforcement actions have been created and will be used as qualifying projects are submitted for review.

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance Development

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

In 2017 the City passed an ordinance and associated stormwater rules and regulations giving authority to enforce and implement aspects of the MS4 Permit associated with reduction of pollutants to the MS4 system and reduction in peak flows associated with development and redevelopment projects. In Year 2 the rules and regulations will be updated to:

- Include supplemental requirements included in the 2016 MS4 permit.
- Provide updates based on lessons learned from the initial several years of ordinance enforcement.

As-built Drawings

The City's existing Stormwater Rules and Regulations currently requires the submittal of as-built drawings.

Street Design and Parking Lots Report

The City has begun the process of reviewing available ordinances and planning documents. The report will be completed by Year 4.

Green Infrastructure Report

The City has begun the process of reviewing available ordinances and planning documents. The report will be completed by Year 4.

Retrofit Properties Inventory

The City has begun the process of identifying City-owned parcels and gathering GIS information (e.g., soil types, impervious area) that will be used to evaluate retrofit opportunities.

MCM 6: Good Housekeeping

Catch Basin Cleaning

A catch basin inspection and cleaning Standard Operating Procedure (SOP) that includes an optimization plan was developed and is attached to the email submission (Attachment E).

The City is in the process of developing an asset management system. The software system being used is a combination of ESRI ArcGIS and Lucity. This system allows the City to track maintenance and inspections on an asset level. Due to timing of the asset management system implementation, Year 1 data includes a combination of MS4 and non-MS4 catch basins. Going forward, MS4 catch basins will be tracked separately.

During this reporting period:

- Number of catch basins inspected: 491
- Number of catch basins were cleaned: 267
- Volume or mass of material removed: 538 cubic yards
- Number of catch basins in MS4: 491

No duplicate inspections were completed within Year 1 to identify any catch basins with sumps more than 50 percent full during two consecutive routine inspections/cleaning events.

Street Sweeping

Written procedures for sweeping streets and municipal-owned lots have been developed.

During the reporting period:

Curb miles of streets cleaned: (12,426 miles were cleaned)/(3,812 cubic yards of material was removed).

Note: The City's combined sewer and drainage systems are intricately intertwined. The street sweeping data presented here is for streets that are physically located within the 2010 Census MS4 Regulated Area regardless of whether they discharge to a drainage or combined sewer system.

Winter Road Maintenance

Describe the status of the written procedures for winter road maintenance including the storage of salt and sand:

The City has completed written procedures for winter road maintenance including the storage of salt and sand.

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 and updates:

The City has completed a draft inventory of permittee-owned properties. The inventory will be finalized in 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, and vehicles and equipment), and include maintenance activities associated with each:

The City has created draft standard operating procedures (SOPs) for parks and open spaces, buildings and facilities, and vehicles and equipment. The SOPs will be finalized in year 2.

Stormwater Pollution Prevention Plan (SWPPP)

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

Locations that require a SWPPP have been identified and drafts have been started. The SWPPPs will be completed in year 2.

During this reporting period, 0 site inspections have been completed for facilities that require a SWPPP.

O&M Procedures for Stormwater Treatment Structures

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

The City has completed written procedures for maintenance of stormwater treatment structures.

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 previously, where the data is being used to inform permit compliance or permit effectiveness are not applicable:

N/A

Additional Information

Optional: enter additional information relevant to your SWMP implementation during the reporting period. Include any BMP modifications made by the MS4 if not previously discussed:

N/A

Activities Planned for Next Reporting Period

The SWMP has been, or will be, updated to comply with applicable permit requirements including but not limited to the Year 2 requirements summarized below. The SWMP also has been, or will be, updated to comply with applicable permit requirements for impaired waters and TMDL requirements, not included below.

- Complete system mapping Phase I
- Begin investigations of catchments associated with Problem Outfalls
- Modify an ordinance or other regulatory mechanism for post-construction stormwater from new development and redevelopment
- Establish and implement written procedures to require the submission of as-built drawings no later two years after the completion of construction projects
- Develop, if not already developed, written operations and maintenance procedures
- Develop an inventory of 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 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
- Develop, if not already developed, written procedures for winter road maintenance including storage 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 receiving waters
 - Annual training to employees involved in IDDE program
 - Update inventory of 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
 - Conduct site inspection of construction sites as necessary
 - Inspect and maintain stormwater treatment structures
 - Log catch basins cleaned or inspected
 - Sweep curbed streets at least annually



Section 5

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: Jamie Ponte

Title: DPI Commissioner

Signature: 

Date: 9/27/19



