Stormwater Management Program (SWMP)

City of Marlborough

140 Main Street

MA + 01752

EPA NPDES Permit Number - MAR041128

Certification

Authorized Representative (Optional): All reports, including SWPPPs, inspection reports, annual reports, monitoring reports, reports on training and other information required by this permit must be signed by a person described in Appendix B, Subsection 11.A or by a duly authorized representative of that person in accordance with Appendix B, Subsection 11.B. If there is an authorized representative to sign MS4 reports, there must be a signed and dated written authorization.

The authorization letter is:

\boxtimes	Attached to this document (document name listed below)	
	Signature Authorization	
	Publicly available at the website below	
supervevaluathose j	cify under penalty of law that this document and all attachments were prepared under vision in accordance with a system designed to assure that qualified personnel properlated the information submitted. Based on my inquiry of the person or persons who mat persons directly responsible for gathering the information, the information submitted edge and belief, true, accurate, and complete. I am aware that there are significant pertains false information, including the possibility of fine and imprisonment for knowing	y gathered and mage the system, or is, to the best of my nalties for
Printe	ed Name	
Signa	Date	
	Click Here for Revisions	

Background

Stormwater Regulation

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from Census designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

Permit Program Background

On May 1, 2003, EPA Region 1 issued its Final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 small MS4 permit) consistent with the Phase II rule. The 2003 small MS4 permit covered "traditional" (i.e., cities and towns) and "non-traditional" (i.e., Federal and state agencies) MS4 Operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008 but remained in effect until operators were authorized under the 2016 MS4 general permit, which became effective on July 1, 2018.

Stormwater Management Program (SWMP)

The SWMP describes and details the activities and measures that will be implemented to meet the terms and conditions of the permit. The SWMP accurately describes the permittees plans and activities. The document should be updated and/or modified during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term. The main elements of the stormwater management program are (1) a public education program in order to affect public behavior causing stormwater pollution, (2) an opportunity for the public to participate and provide comments on the stormwater program (3) a program to effectively find and eliminate illicit discharges within the MS4 (4) a program to effectively control construction site stormwater discharges to the MS4 (5) a program to ensure that stormwater from development projects entering the MS4 is adequately controlled by the construction of stormwater controls, and (6) a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

Town Specific MS4	Background (op	tional)		

Small MS4 Authorization

The NOI was submitted on	9/25/2018				
The NOI can be found at th	e following (doc	cument name or web	address):		
https://www3.epa.gov/regio	on1/npdes/storm	water/ma/tms4noi/ma	arlborough.po	df	
Authorization to Discharge	was granted on	3/5/2019			
The Authorization Letter ca	n be found (doc	rument name or web	address):		
https://www3.epa.gov/regio	on1/npdes/storm	water/ma/tms4noi/ma	arlborough-aı	uth.pdf	

Stormwater Management Program Team

SWMP Team Coordinator

Name	Thomas DiPersio		Title City Engineer						
Department	Engineering Department								
Phone Number	508-624-6910	Email tdipe	ersio@marlborough-ma.gov						
Responsibilities	Primary responsibility for coor	dinating comp	pliance with the MS4 Stormwater Permit.						
SWMP Team									
Name	Ashley Miller		Title Grade III Engineer						
Department	Engineering Department								
Phone Number	508-624-6910	Emailamil	ler@marlborough-ma.gov						
Responsibilities	Responsibilities Responsible for coordinating MS4 programs and field inspections at construction sites.								
Name	Priscilla Ryder		Title Conservation Officer						
Department	Conservation								
Phone Number	508-460-3768	Email pryd	er@marlborough-ma.gov						
Responsibilities	Responsible for compliance of construction sites.	Stormwater F	Regulations. Responsible for field inspections at						
Name			Title						
Department									
Phone Number		Email							
Responsibilities									

Name	Title
Department	
Phone Number	Email
Responsibilities	
1	

Add SWMP Member

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Receiving Waters

The following table lists all receiving waters, impairments and number of outfalls discharging to each waterbody segment.

ON

The information can be found in the following document or at the following web address:

https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/marlborough.pdf

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a Dissolved	DO Saturation	Nitrogen Oil & Grease/	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Other pollutant(s) causing impairments
							\boxtimes			☐ Aquatic Plants (Macrophytes),
										Excess Algal Growth, Fishes
Assabet River	6									Bioassessments, Aquatic Macroinvertehrate
										Bioassessments Fecal
										Coliform
Sudbury Reservoir	10						П			☐ Mercury in fish tissue
										☐ Chloradane, Eurasian Water
Fort Meadow Reservoir	34									Milfoil, Myriophyllum
										Spicatum
							\boxtimes	\boxtimes		Aquatig Plants (Macrophytes),
Hager Pond	1									Non-Native Aquatic Plants,
										Fecal Coliform
Lake Williams	6			_						
Hop Brook	7			\boxtimes			\boxtimes	\boxtimes		Excess Algal Growth
Flagg Brook	25									
Sheep Fall Brook	14			 						

								Other pollutant(s) causing impairments																
								Enterococcus																
								E. coli																
								Solids/ TSS/ Turbidity																
								Phosphorus																
								Oil & Grease/ PAH																
								Nitrogen Oil & Grosso/																
								Dissolved Oxygen/ DO Saturation																
								Сијогорћујі-а																
								Chloride																
22	10	16	9	2	9	1	3	Number of outfalls into receiving water segment	5	2	12	1	19	2	6	13	11	4	5	5	15	1	19	8
North Branch Brook	Millham Brook	Mowry Brook	Broad Meadow Brook	Howe Pond	Spoonhill Pond aka Pond North of Hemenway Street	Unnamed Tributary to Assabet River (1)	Unnamed Tributary to Assabet River (2)	Waterbody segment that receives flow from the MS4	Unnamed Tributary to Cranberry Brook	Rice Brook	River Meadow Brook	Millham Brook	Unnamed Tributary to Wachusett Aqueduct (1)	Unnamed Tributary to Wachusett Aqueduct (2)	Unnamed Tributary to Wachusett Aqueduct (3)	Road Brook	Beach Street Brook	Red Spring Brook	Holts Grove	Fort Meadow Brook	Unnamed Tributary to Fort Meadow Brook (1)	Unnamed Tributary to Fort Meadow Brook (2)	Marlborough Brook	Hardiman Brook

Other pollutant(s) causing impairments																	Other pollutant(s) causing impairments
Enterococcus																	Enterococcus
E. coli																	E. coli
Solids/ TSS/ Turbidity																	VSST \sobilos \square \square \square \Text{Intibidity}
Phosphorus																	□ □ ⊠ bposphorus
Oil & Grease/ PAH																	Oil & Grease/
Nitrogen																	negen □ □ □ □
Oxygen/ DO Saturation																	Oxygen/ D Saturation
Chlorophyll-a Dissolved																	☐ ☐ ☐ Chlorophyll-a
Chlorophyll-a		H	片	H	片	H						牌			片		Chloride
	Ш		۲													Ш	
Number of outfalls into receiving water segment	16	1	1	3	2	2	22	2	3	4	18	18	5	2	2	4	Number of outfalls into receiving water segment
Waterbody segment that receives flow from the MS4	North Branch Mowry Brook	Humphrey Pond	Barefoot Brook	Unnamed Tributary to Lake Williams	Unnamed Pond off Goodale Street	Grist Mill Pond	Rock Meadow Brook	Morse Brook	Unnamed Tributary to Sudbury Reservoir (1)	Unnamed Tributary to Sudbury Reservoir (2)	Unnamed Tributary to Hop Brook (1)	Unnamed Tributary to Hop Brook (2)	Unnamed Tributary to Hop Brook (3)	Unnamed Tributary to North Branch Brook (1)	Unnamed Tributary to North Branch Brook (1)	Unnamed Tributary to Millham Brook	Waterbody segment that receives flow from the MS4 Unnamed Tributary to Gristmill Pond

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Click here to lengthen table

Eligibility: Endangered Species and Historic Properties

*Reminder: The proper consultations and updates to the SWMP must be conducted for construction projects related to your permit compliance where Construction General Permit (CGP) coverage, which requires its own endangered species and history preservation determination, is NOT being obtained.

Attachr	ments:
\boxtimes	The results of Appendix C U.S. Fish and Wildlife Service endangered species screening determination
\boxtimes	The results of the Appendix D historic property screening investigations
	If applicable, any documents from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other Tribal representative to mitigate effects
	attachments are required within one year of the permit effective date and are:
\boxtimes	Attached to this document (document names listed below)
	Publicly available at the website listed below
Under v	what criterion did permittee determine eligibility for ESA?
	erion A
_	
	what criterion did permittee determine eligibility for Historic Properties?
⊠ Crit	erion A Criterion B Criterion C Criterion D (NH only)
	add any additional measures for structural controls that you're required to do through consultation with ish and Wildlife Service (if applicable):
0.5.11	ish and whome service (if applicable).
	add any additional measures taken to avoid or minimize adverse impacts on places listed, or eligible for on the NRHP, including any conditions imposed by the SHPO or THPO (if applicable):

MCM 1 Public Education and Outreach

Permit Part 2.3.2

Objective: The permittee shall implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that the pollutants in stormwater are reduced.

Examples and Templates:

EPA's Stormwater Education Toolbox MassDEP's Stormwater Outreach Materials

Other templates relevant to MCM 1 can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#peo

BMP:Anti-Icing	
BMP Number (Optional) 1-1	
	I:\New Engineering\MS4\Public Education and Outreach Materials \Commercial\ms4-anti-icing
Description:	
Educational material sent with Water Bills proper use of anti-icing techniques	s to all Commercial/Industrial/Business properties identifying the
Targeted Audience: Businesses, institution	ons and commercial facilities
Responsible Department/Parties: Engine	eering/Water Division
Measurable Goal(s):	
100% distribution to commercial/industria	ul/business properties
Message Date(s): Scheduled for	
	I:\New Engineering\MS4\Public Education and Outreach Materials \Commercial\ms4-p2-business
Description:	
Educational material sent with Water Bills techniques to reduce and prevent stormwa	s to all Commercial/Industrial/Business properties identifying atter pollution.
Targeted Audience: Businesses, institution	ons and commercial facilities
Responsible Department/Parties: Engine	eering/Water Division
Measurable Goal(s):	
100% distribution to commercial/industria	ıl/business properties
Message Date(s): Scheduled for	
BMP:[BMP name here] BMP Number (Optional)	

Document Name and/or Web Address:	I:\New Engineering\MS4\Public Education and Outreach Materials \Developers\ms4-what-developers-can-do
Description:	
-	nstruction meetings to identify the need to eliminate off site
Targeted Audience: Developers (constru	action)
Responsible Department/Parties: Engin	eering/Conservation
Measurable Goal(s):	
Responsible actions by developers should	reduce/eliminate IDDE reporting
Message Date(s): Scheduled for	
BMP:[BMP name here]	
BMP Number (Optional)	
Document Name and/or Web Address:	
Description:	
Targeted Audience: Developers (constru	action)
Responsible Department/Parties:	
Measurable Goal(s):	
Message Date(s):	
BMP:[BMP name here]	
BMP Number (Optional)	
Document Name and/or Web Address:	I:\New Engineering\MS4\Public Education and Outreach Materials \Industrial\ms4-industrial-bmps
Description:	
Educational material sent with Water Bill	s targeting Industrial sites on prevention of stormwater pollution

within their sites
Targeted Audience: Industrial facilities
Responsible Department/Parties: Engineering/Water Division
Measurable Goal(s):
100% distribution to Industrial sites, also targeting Commercial & Business sites who could also benefit from the information contained in the flyer
Message Date(s): Scheduled for
BMP:[BMP name here]
BMP Number (Optional)
Document Name and/or Web Address:
Description:
Targeted Audience: Industrial facilities
Responsible Department/Parties:
Measurable Goal(s):
Message Date(s):
BMP:[BMP name here]
BMP Number (Optional)
Document Name and/or Web Address: I:\New Engineering\MS4\Public Education and Outreach Materials \Residential\stormwater8by11 pubrevised-2018
Description:
Distributed with Water Bills to residents during April/May/June to educate the public on the importance of preventing stormwater pollution
Targeted Audience: Residents
Responsible Department/Parties: Engineering/Water Division

Measurable Goal(s):
100% distribution to residents
Message Date(s): April/May/June 2018
BMP:[BMP name here]
BMP Number (Optional)
Document Name and/or Web Address:
Description:
Targeted Audience: Residents
Responsible Department/Parties:
Measurable Goal(s):
Message Date(s):

Add BMP

MCM 2

Public Involvement and Participation

Permit Part 2.3.3

Objective: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

BMP: Public Review of Stormwater Management Program BMP Number (Optional) 2-1 **Location of Plan and/or Web Address:** Responsible Department/Parties: Engineering **Measurable Goal(s):** Stormwater Management Plan is publicly available. BMP: Public Participation in Stormwater Management Program Development BMP Number (Optional) 2-2 **Description:** A notice will go out on the City website to ask for any comments on the Stormwater Management Plan Responsible Department/Parties: Engineering **Measurable Goal(s):** Annual public input provided. **BMP:** [BMP name here] **BMP Number** (Optional) **Document Name and/or Web Address: Description: Responsible Department/Parties:**

Measurable Goal(s):

MCM 3

Illicit Discharge Detection and Elimination (IDDE) Program

Permit Part 2.3.4

Objective: The permittee shall implement an IDDE program to systematically find and eliminate illicit sources of non-stormwater discharges to its municipal separate storm sewer system and implement procedures to prevent such discharges.

Examples and Templates:

IDDE Program Template and SOPs

Other templates relevant to IDDE can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#idde

BMP: IDDE Legal Authority

BMP Number (Optional) 3-1	Completed (by May 1, 2008) ⊠
Ordinances Link or Reference: https://v	www.ecode360.com/15931999?highlight=illicit discharges
Department Responsible for Enforcement	Engineering
BMP: Sanitary Sewer Overflow (SSO)	
BMP Number (Optional) 3-2	Completed (by year 1) ⊠
Document Name and/or Web Address:	I:\New Engineering\MS4\Year 1 Requirement Documents\Illicit Discharge Detection and Elimination (IDDE)\SSO - Sanitary Sewer Overflows
Description:	
DEP notification of sanitary sewer overflo	ow events
Responsible Department/Parties: DPW	Water & Sewer/Engineering

Measurable Goal(s):

Annually track and report the following SSO information: the location; a clear statement of whether the discharge entered a surface water directly or entered the MS4; date(s) and time(s) of each known SSO occurrence; estimated volume(s) of the occurrence; description of the occurrence indicating known or suspected cause(s); mitigation and corrective measures completed with dates implemented; and mitigation and corrective measures planned with implementation schedules. Update inventory as needed.

SSO Reporting:

In the event of an overflow or bypass, a notification must be reported within 24 hours by phone to MassDEP, EPA, and other relevant parties. Follow up the verbal notification with a written report following MassDEP's Sanitary Sewer Overflow (SSO)/Bypass notification form within 5 calendar days of the time you become aware of the overflow, bypass, or backup.

The MassDEP contacts are:

Northeast Region (978) 694-3215

205B Lowell Street

Wilmington, MA 01887

Central Region (508) 792-7650

8 New Bond Street

Worcester, MA 01606

Southeast Region (508) 946-2750

20 Riverside Drive

Lakeville, MA 02347

Western Region (413) 784-1100

436 Dwight Street

Springfield, MA 01103

24-hour Emergency Line 1-888-304-1133

The EPA contacts are:

EPA New England (617) 918-1510

5 Post Office Square

Boston, MA 02109

BMP: Map of Storm Sev	ver System
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BMP Number (Optional) 3-3

Phase I Completed (by year 2)

Phase II Completed (by year 10)

Document Location and/or Web Address: https://www.axisgis.com/marlboroughma/

Description:

GIS maps outfalls, the stormwater system including pipes, manholes, catch basins, municipal sanitary sewer system.

Responsible Department/Parties: Engineering

Measurable Goal(s):

Map 100% of outfalls and receving waters, open channel conveyances, interconnections with other MS4s and other storm sewer systems, municipally-owned stormwater treatment structures, waterbodies identified by name and indication of all use impairments, and initial catchment delineations within 2 years of the permit's effective date. Map 100% of outfall spatial locations, pipes, manholes, catch basins, refined catchment delineations, municipal sanitary sewer system (if available), and municipal combined sewer system (if applicable) within 10 years of the permit's effective date.

BMP: IDDE Program

BMP Number (Optional) 3-4 Written Document Completed (by year 1) ⊠

Document Name and/or Web Address: https://www.marlborough-ma.gov/sites/g/files/vyhlif3411/f/uploads/idde_report.pdf

Description:

The IDDE plan describes in detail IDDE responsibilities, stormwater system mapping, SSO inventory, priority ranking of outfalls, dry weather outfall screening and sampling, catchment investigations, training and progress reporting.

Responsible Department/Parties: Engineering
Measurable Goal(s):
Conduct 100% of outfall screening on High and Low Priority Outfalls within 3 years of the permit's effective date. Complete catchment investigations for 100% of the Problem Outfalls within 7 years of the permit's effective date. Complete 100% of all catchment investigations within 10 years of the permit's effective date.
The outfall/interconnection inventory and initial ranking and the dry weather outfall and interconnection screening and sampling results can be found:
BMP: Employee Training
BMP Number (Optional) 3-5
Description:
Employee education takes place on site during construction activities.
Responsible Department/Parties: Engineering/Water & Sewer Division
Measurable Goal(s):
Training occurs as needed or annually.
BMP:[BMP name here]
BMP Number (Optional) Completed
Document Name and/or Web Address:
Description:
Responsible Department/Parties:
Measurable Goal(s):

MCM 4

Construction Site Stormwater Runoff Control

Permit Part 2.3.5

Objective: The objective of an effective construction stormwater runoff control program is to minimize or eliminate erosion and maintain sediment on site so that it is not transported in stormwater and allowed to discharge to a water of the U.S. through the permittee's MS4.

Examples and Templates:

Examples and templates relevant to MCM 4, including model ordinances and site inspection templates, can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#csrc

BMP Number (Optional) 4-1 Completed (by May 1, 2008) Ordinances Link or Reference: https://www.ecode360.com/documents/MA1056/source/346020.pdf **Department Responsible for Enforcement:** Engineering **BMP: Site Plan Review Procedures** BMP Number (Optional) 4-2 Written procedures completed (by year 1) \boxtimes **Document Name and/or Web Address:** https://ecode360.com/9210416 **Description:** City Code Chapter 270 Building and Site Development Subsection 270-2 Site plan review and approval outlines the established requirement for site plan review procedures. This has been updated to include the requirements outlined in the MS4 permit. Responsible Department/Parties: Site Plan Committee **Measurable Goal(s):** Conduct site plan review of 100% of projects according to the procedures outlined above. BMP: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures BMP Number (Optional) 4-3 Completed (by year 1) \boxtimes **Document Name and/or Web Address:** https://www.marlborough-ma.gov/sites/marlboroughma/files/ uploads/public works stormwater management regulations.pdf **Description:** The above link is to the Marlborough Stormwater Management Rules & Regulations. Section 8 & 9 of the Rules & Regulations outline the Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures. Responsible Department/Parties: Engineering, Conservation **Measurable Goal(s):** Inspect 100% of construction sites as outlined in the above document and take enforcement actions as needed.

BMP: Sediment and Erosion Control Ordinance

BMP:[BMP name here]

BMP Number (Optional)	Completed
Document Name and/or Web Address:	
Description:	
Responsible Department/Parties:	
Measurable Goal(s):	

Add BMP

MCM 5

Post Construction Stormwater Management in New Development and Redevelopment

Permit Part 2.3.6

Objective: The objective of an effective post construction stormwater management program is to reduce the discharge of pollutants found in stormwater to the MS4 through the retention or treatment of stormwater after construction on new or redeveloped sites and to ensure proper maintenance of installed stormwater controls.

Examples and Templates:

Examples and templates relevant to MCM 5, including model ordinances and bylaw review templates and guidance can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#pcsm

BMP: Post-Construction Ordinance BMP Number (Optional) 5-1 Completed (by year 2) \boxtimes Town Ordinances Link or Reference: https://www.ecode360.com/documents/MA1056/source/346020.pdf **Department Responsible for Enforcement:** Engineering **BMP: Street Design and Parking Lot Guidelines Report** BMP Number (Optional) 5-2 Completed (by year 4) **Document Name and/or Web Address: Description:** Develop a report assessing street design and parking lot guidelines to determine if changes to design standards for parking lots and street design may support low impact design options. Responsible Department/Parties: Engineering/Planning Board Committee/Site Plan Committee Measurable Goal(s): Recommendations are implemented by June 30, 2022 with progress reported annually. **BMP: Green Infrastructure Report** BMP Number (Optional) 5-3 **Completed** (by year 4) **Document Name and/or Web Address: Description:** Develop a report assessing existing local regulations to determine the feasibility of including green infrastructure to future projects when appropriate. Responsible Department/Parties: Engineering/Planning Board Committee/Site Plan Committee **Measurable Goal(s):** Recommendations are implemented by June 30, 2022 with progress reported annually.

BMP: List of Municipal Retrofit Opportunities

Completed (by year 4) □
itted or modified with BMP's to minimize he reduction of impervious area
Completed

Add BMP

MCM 6

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Permit Part 2.3.7

Objective: The permittee shall implement an operations and maintenance program for permittee-owned operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned operations.

Examples and Templates:

Examples and templates relevant to MCM 6, including SOP templates for catch basin cleaning, street sweeping, vehicle maintenance, parks and open space management, winter deicing, and Stormwater Pollutoin Prevention Plans can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh

PERMITTEE OWNED FACILITIES

BMP: Parks and Open Spaces Operations and Maintenance Procedures

BMP Number (Optional) 6-1	Written Document Completed (by year 2) ⊠
Document Name and/or Web Address:	Operations and Maintenance of Parks and Open Spaces
Description:	
The Operations and Maintenance of Parks	s and Open Spaces describes the procedures at municipal parks and rigation, landscaping, snow removal, trash management and other
Responsible Department/Parties: Department	tment of Public Works
Measurable Goal(s):	
Implement the SOP listed above on 100%	of the parks and open spaces.
Properties List (Optional):	
Properties List is included in Operations a	and Maintenance of Parks and Open Spaces Document
BMP Number (Optional) 6-2	Written Document Completed (by year 2) ☐
BMP Number (Optional) 6-2	Written Document Completed (by year 2) □
Document Name and/or Web Address:	Operations and Maintenance of Buildings and Facilities
Description:	
1	dings and Facilities describes the procedures at municipally owned or the discharge of pollutants. It also provides an inventory of all
Responsible Department/Parties: Department	tment of Public Works/Facilities
Measurable Goal(s):	
Implement the SOP listed above on 100%	of buildings and facilities.
Properties List (Optional):	
Properties List is included in the Operation	ons and Maintenance of Buildings and Facilities Document
BMP: Vehicles and Equipment Operati	ons and Maintenance Procedures
BMP Number (Optional) 6-3	Written Document Completed (by year 2) ⊠

Document Name and/or Web Address:	Operations and Maintenance of Vehicles and Equipment
Description:	
*	cles and Equipment describes the procedures for vehicle storage, eling, material management, parts cleaning and vehicle and
Responsible Department/Parties: Department	rtment of Public Works
Measurable Goal(s):	
Implement the SOP listed above for 100%	of vehicles and equipment according to the above document.
Properties List (Optional):	
Properties List is included in the Operatio	ns and Maintenance of Vehicles and Equipment
INFRASTRUCTURE	
BMP: Infrastructure Operations and M	laintenance Procedures
BMP Number (Optional) 6-4	Written Procedure Completed (by year 2) □
Document Name and/or Web Address:	Infrastructure Operation and Maintenance Plan
Description:	
The Infrastructure Operation and Mainten catch basins, municipal streets and parking	ance Plan describes the inspection and maintenance procedures for g lot and structural stormwater BMPs.
Responsible Department/Parties: Department	rtment of Public Works
Measurable Goal(s):	
	nsure proper function in accordance with the procedures above.
BMP: Catch Basin Cleaning Program	
BMP Number (Optional) 6-5	Written Procedure Completed (by year 1) ⊠
Document Name and/or Web Address:	Catch Basin Cleaning
Description:	
Excel spreadsheet report, part of catch bas	sin cleaning contract which documents each catch basin cleaned.
Responsible Department/Parties: DPW	Operations

All catch basins are cleaned in accordance full at any given time.	e to the document above such that no catch basin is more than 50%
BMP: Street Sweeping Program	
BMP Number (Optional) 6-6	Written Procedure Completed (by year 1) ⊠
Document Name and/or Web Address:	Street Sweeping
Description:	
Street sweeping is performed by sections hydrant flushing program	as shown on City website. Street sweeping is performed ahead of
Responsible Department/Parties: DPW	7 Operations
Measurable Goal(s):	
Annually sweep 100% of all streets and 5 listed above.	0% of all municipal parking lots in accordance with the schedule
BMP: Winter Road Maintenance Progr	<u>cam</u>
BMP Number (Optional) 6-7	Written Procedure Completed (by year 1) ⊠
Document Name and/or Web Address:	Winter Road Maintenance
Description:	
Presentation of 5 different salting applica	tions documenting their use and reduction in total salt useage.
Responsible Department/Parties: DPW	Operations
Measurable Goal(s):	
Evaluate at least one salt/chloride alternat	tive for use in the municipality.
BMP: Stormwater Treatment Structure	es Inspection and Maintenance Procedures
BMP Number (Optional) 6-8	Completed (by year 1) ⊠
Document Name and/or Web Address:	Stormwater Treatment Structure Inspections and Maintenance

Measurable Goal(s):

Description:	
Detention basin inspection/checklist to de required.	termine effectiveness of detention basin and note any remedial work
Responsible Department/Parties: DPW	Operations
Measurable Goal(s):	
Inspect and maintain 100% of treatment s	tructures to ensure proper function.
BMP: SWPPP	
BMP Number (Optional) 6-9	Completed (by year 2) ⊠
Document Name and/or Web Address:	DPW SWPPP
Description:	
	managed at the DPW facility, provides an inventory of materials and I to cause stormwater pollution, and describes BMPs that will be
Responsible Department/Parties: Department	rtment of Public Works
Measurable Goal(s):	
Develop and implement SWPPPs for 100°	% of facilities.
BMP:	
BMP Number (Optional)	Completed
Document Name and/or Web Address:	
Description:	
Responsible Department/Parties:	
Measurable Goal(s):	

Annual Evaluation

Year 1 Annual Report
Document Name and/or Web Address:
https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2019/marlborough-ma-ar19.pdf
Year 2 Annual Report
Document Name and/or Web Address:
https://www3.epa.gov/region1/npdes/stormwater/ma/reports/2020/marlborough-ma-ar20.pdf
Year 3 Annual Report
Document Name and/or Web Address:
Year 4 Annual Report Document Name and/or Web Address:
Year 5 Annual Report
Document Name and/or Web Address:
Year X Annual Report
Document Name and/or Web Address:

Add a Year

TMDLs and Water Quality Limited Waters

Select the applicable $\mbox{Impairment}(s)$ and/or $\mbox{TMDL}(s).$

Impairment(s)			
☐ Bacteria/Pathogens ☐ Chl	loride [☐ Nitrogen	
☐ Solids/oil/grease (hydrocarbons	s)/metals		
TMDL(s) In State:			
	Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
☐ Charles River Watershed Pho	osphorus	Lake and Po	ond Phosphorus
Out of State:			
☐ Bacteria and Pathogen [Metals	□ Nitrogen	☐ Phosphorus
	Clear Imp	pairments and TM	DLs

Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Assabet River	Phosphorus	+ -
Annual Requirements Beginning Year 1		
Rank outfalls to these receiving waters as high prior ranking	rity for IDDE implementation in the i	nitial outfall

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outfall ranking - I:\New Engineering\MS4\Year 1 Requirement Documents\Illicit Discharge Detection and Elimination (IDDE)\Outfall inventory master high priority outfalls

Public Education and Outreach

 $(Public\ education\ messages\ can\ be\ combined\ with\ other\ public\ education\ requirements\ as\ applicable\ (see\ Appendix\ H\ and\ F\ for\ more\ information))$

Distribute an annual message in the spring(April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Displayed on City's website - lawn and garden tips to help curb stormwater pollution - posted 5/20/2019

Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

To be displayed on City's website in July - thinkblue_dog-ad.jun2019

Distribute an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

	To be displayed on City's website in October
ood	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)
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	Street sweeping programs begins in March with multiple sweepers used to clean Marlborough streets and again in September with a single sweeper used to continuously clean the streets throughout the season
	Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	City Code 511-7 Storm Sewers prohibited activities - c. obstruction of municipal storm drain system. No person shall obstruct or interfere with the flow of stormwater into or out of municipal storm drain systems without written approval from the City Engineer
orm	water Management in New Development and Redevelopment
	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

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 phosphorus removal by the BMP consistent with Attachment 1 to Appendix H.

esti	mated phosphorus removed in pass per year by the BMP is found in the following document or posite and is updated yearly at a minimum:
-	s Due by Year 2 er Management in New Development and Redevelopment
shal	requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism ll include a requirement that new development and redevelopment stormwater management BMPs optimized for phosphorus removal
	e relevant BMP number(s) listed above in the Stormwater Management Program OR the cription of implementation actions and document location(s) are:
Requirement	s Due by Year 4
	nplete a Phosphorus Source Identification Report
	e document name (if attached) and/or web address is/are:
Stormwate	er Management in New Development and Redevelopment
	rofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that ltrate stormwater where feasible
	e relevant BMP number(s) listed above in the Stormwater Management Program OR the cription of implementation actions and document location(s) are:

Requirements Due by Year 5
Potential Structural BMPs

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries
The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
Complete a listing of planned structural BMPs and a plan and schedule for implementation The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are: