

Stormwater Management Program (SWMP)

Town of Holden

1196 Main St MA 01520

EPA NPDES Permit Number MAR041121

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:

- ☐ Attached to this document (document name listed below)

- ☐ Publicly available at the website below

“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 gathered and evaluated 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, 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.”

Printed Name Peter Lukes

Signature

Date

Revisions

Printed Name

Signature

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 (optional)

The Town of Holden has obtained coverage under the 2016 Massachusetts Small MS4 General Permit on April 5, 2019, which replaced the Town's 2003 Small MS4 General Permit.

Small MS4 Authorization

The NOI was submitted on

The NOI can be found at the following (document name or web address):

Authorization to Discharge was granted on

The Authorization Letter can be found (document name or web address):

Stormwater Management Program Team

SWMP Team Coordinator

Name	Patrick Wood	Title	Civil Engineer
Department	Department of Public Works		
Phone Number	(508) 210-5550	Email	pwood@holdenma.gov
Responsibilities	Ensure day to day activities and reporting of the SWMP are carried out as required in the Permit		

SWMP Team

Name	John Woodsmall	Title	Director of Public Works
Department	Department of Public Works		
Phone Number	508-210-5550	Email	jwoodsmall@holdenma.gov
Responsibilities	Oversee the direction and compliance with the SWMP		

Name	Isabel McCauley	Title	Senior Civil Engineer
Department	Department of Public Works		
Phone Number	508-210-5550	Email	imccauley@holdenma.gov
Responsibilities	Provide support and guidance for compliance with the SWMP		

Name	Pamela Harding	Title	Director of Planning and Development
Department	Planning and Development Office		
Phone Number	508-210-5550	Email	pharding@holdenma.gov
Responsibilities	Provide support and help ensure compliance with stormwater management policies of MCM 3 and 5		

Name	Glenda Williamson	Title	Conservation Agent
Department	Planning and Development Office		
Phone Number	508-210-5550	Email	gwilliamson@holdenma.gov
Responsibilities	Provide support and help ensure compliance with stormwater management policies of MCM 4		

Name	Danielle Edmands	Title	Board of Health Agent
Department	Planning and Development Office		
Phone Number	508-210-5542	Email	edmandsd@worcesterma.giv
Responsibilities	Provide support and help ensure compliance with stormwater management policies of MCM 3		

Add SWMP Member

Receiving Waters

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

OR

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

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Poor Farm Brook (81-52)	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chaffin Pond 81017	17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non-native plants
Dawson Pond 81028	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non-native plants
Chaffins Brook (81-33)	19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unionville Pond 81143	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Eurasian Water Milfoil, Myriophyllum spicatum
Warren Tannery Brook (81-53)	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Asnebumskit Brook (81-56)	25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chronic aquatic toxicity
Quinapoxet River (81-32)	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Low flow alterations
Unnamed trib to Asnebumskit Bk crossing Brookside Dr	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Warren Tannery Bk through cemetery	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Wetland area north of Lowell Ave & tribs	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Chaffins Brook crossing Chapel Street	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bailey Road Pond/Bryant Pond	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Unnamed trib to Bailey Road Pond/Bryant Pond Crossing Powers Road	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Indian Lake crossing Holden St	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnmaed trib to Indian Lake adjacent to Edgewood Dr	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Tatnuck Brook upstream of Holden Res 1	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Trout Brook (81-26)	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Wetland area adjacent to I90 crossing Shrewsbury	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Indian Lake adjacent to Nelson	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Indian Like crossing Parker	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unnamed trib to Wachusett Res adjacent to Juniper	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Eagle Lake	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non-native plants
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

[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.

Attachments:

- ☒ The results of Appendix C U.S. Fish and Wildlife Service endangered species screening determination
- ☒ 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

These attachments are required within one year of the permit effective date and are:

- ☒ Attached to this document (document names listed below)

ESA Determination Letter, NHPA Determination Letter

- ☒ Publicly available at the website listed below

<https://www.holdenma.gov/department-of-public-works/pages/stormwater-information>

Under what criterion did permittee determine eligibility for ESA?

- ☐ Criterion A ☐ Criterion B ☒ Criterion C

Under what criterion did permittee determine eligibility for Historic Properties?

- ☒ Criterion A ☐ Criterion B ☐ Criterion C ☐ Criterion D (NH only)

Below add any additional measures for structural controls that you're required to do through consultation with U.S. Fish and Wildlife Service (if applicable):

None

Below add any additional measures taken to avoid or minimize adverse impacts on places listed, or eligible for listing, on the NRHP, including any conditions imposed by the SHPO or THPO (if applicable):

None

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: Social Media Post/Flyer

BMP Number (Optional) 1 _____

Document Name and/or Web Address: <https://www.holdenma.gov/department-of-public-works/pages/stormwater-information>

Description:

Share a Think Blue Massachusetts Pet Waste Disposal Message or Website

Targeted Audience: Residents

Responsible Department/Parties: DPW, Town Manager Office

Measurable Goal(s):

Track # of followers, views, likes, comments and shares.

Message Date(s): 2018

BMP: Social Media Post/Flyer

BMP Number (Optional) 2 _____

Document Name and/or Web Address: <https://www.holdenma.gov/department-of-public-works/pages/stormwater-information>

Description:

Share a Think Blue Massachusetts Proper Waste Disposal Message or Website

Targeted Audience: Businesses, Institutions and Commercial Facilities

Responsible Department/Parties: DPW, Town Manager Office

Measurable Goal(s):

Track # of followers, views, likes, comments and shares.

Message Date(s): 2018

BMP: Social Media Post/Flyer

BMP Number (Optional) 3 _____

Document Name and/or Web Address:	https://www.holdenma.gov/department-of-public-works/pages/stormwater-information
Description: Share a Think Blue Massachusetts Erosion and Sediment Controls Message or Website	
Targeted Audience:	Developers (construction)
Responsible Department/Parties:	DPW, Town Manager Office
Measurable Goal(s): Track # of followers, views, likes, comments and shares.	
Message Date(s):	2019

BMP: Social Media Post/Flyer

BMP Number (Optional) 4 _____

Document Name and/or Web Address:	https://www.holdenma.gov/department-of-public-works/pages/stormwater-information
Description: Share a Think Blue Massachusetts Fleet Management Message or Website	
Targeted Audience:	Industrial Facilities
Responsible Department/Parties:	DPW, Town Manager Office
Measurable Goal(s): Track # of followers, views, likes, comments and shares.	
Message Date(s):	2019

BMP: Social Media Post/Flyer

BMP Number (Optional) 5 _____

Document Name and/or Web Address:	https://www.holdenma.gov/department-of-public-works/pages/stormwater-information
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Description:

Share a Think Blue Massachusetts Yard Care Message or Website

Targeted Audience: Residents

Responsible Department/Parties: DPW, Town Manager Office

Measurable Goal(s):

Track # of followers, views, likes, comments and shares.

Message Date(s): 2020

BMP: Social Media Post/Flyer

BMP Number (Optional) 6

Document Name and/or Web Address: <https://www.holdenma.gov/departments-of-public-works/pages/stormwater-information>

Description:

Share a Think Blue Massachusetts Lawn/Landscaping Care BMPs Message or Website

Targeted Audience: Businesses, Institutions and Commercial Facilities, Industrial Facilities

Responsible Department/Parties: DPW, Town Manager Office

Measurable Goal(s):

Track # of followers, views, likes, comments and shares.

Message Date(s): 2020

BMP: Social Media Post/Flyer

BMP Number (Optional) 7

Document Name and/or Web Address: <https://www.holdenma.gov/departments-of-public-works/pages/stormwater-information>

Description:

Share a Think Blue Massachusetts Green Infrastructure/LID Message or Website

Targeted Audience:	Developers (construction)
Responsible Department/Parties:	DPW, Town Manager Office
Measurable Goal(s):	Track # of followers, views, likes, comments and shares.
Message Date(s):	2021

BMP: Social Media Post/Flyer

BMP Number (Optional)	8
Document Name and/or Web Address:	https://www.holdenma.gov/departments-of-public-works/pages/stormwater-information
Description:	Share a Think Blue Massachusetts Lawn/Landscaping Care BMPs message or website
Targeted Audience:	Industrial facilities
Responsible Department/Parties:	DPW, Town Manager Office
Measurable Goal(s):	Track # of followers, views, likes, comments and shares.
Message Date(s):	2021

BMP: Meeting

BMP Number (Optional)	9
Document Name and/or Web Address:	https://www.centralmastormwater.org/
Description:	Continue Implementation of Regional Municipal Stormwater Management Program through the Central Massachusetts Regional Stormwater Coalition.
Targeted Audience:	General Public
Responsible Department/Parties:	DPW, Planning Board, Conservation Commission

Measurable Goal(s):

Identify appropriate sources of funding assistance and apply for assistance implementing the program.

Message Date(s): 2018

BMP: Community Development

BMP Number (Optional) 10

Document Name and/or Web Address: <https://www.centralmastormwater.org/>

Description:

Collaborate with Local Groups to Promote Stormwater Management

Targeted Audience: General Public

Responsible Department/Parties: DPW, Board of Selectmen

Measurable Goal(s):

Assist in the trails and greenways improvements in collaboration with Wachusett Greenways to protect water quality and public recreation.

Message Date(s): 2019

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) 11 _____

Location of Plan and/or Web Address:

Responsible Department/Parties:

Measurable Goal(s):

Stormwater Management Plan is publicly available. Allow review and comment section to track questions and involvement

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) 12 _____

Description:

Engage Public during annual SWMP public hearing.

Responsible Department/Parties:

Measurable Goal(s):

Allow public to comment on stormwater management plan and provide signature sheet to track public involvement.

BMP: Utilize Enviroscope Model to Explain Stormwater

BMP Number (Optional) 13 _____

Document Name and/or Web Address:

Description:

Utilize Enviroscope Model to explain stormwater.

Responsible Department/Parties:

Measurable Goal(s):

Display Enviroscope at 2 Annual Town Festivals and/or special occasions, document number of people attending event, and track flyers that were distributed.

BMP: Continue Involvement in the Central Massachusetts Regional Stormwater Coalition

BMP Number (Optional) 14

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: ThinkBlue Holden Hashtag Contest

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) _____

Completed (by May 1, 2008) ☒

Ordinances Link or Reference: Article XXIV - Stormwater Management Bylaw, Approved at Town Meeting June 29, 2020 (replaced Article XXV - Illicit Discharge Control)
<https://www.holdenma.gov/departments-of-public-works/pages/stormwater-information>

Department Responsible for Enforcement: DPW, Planning Board

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) 15

Completed (by year 1) ☒

Document Name and/or Web Address: "SSO Inventory - Holden, MA" as issued in the most recent version of the Town of Holden IDDE Plan

Description:

Maintain SSO inventory in accordance of permit conditions.

Responsible Department/Parties: DPW, Board of Health, Conservation Commission

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:
Central Region (508) 792-7650
8 New Bond Street
Worcester, MA 01606

The EPA contacts are:
EPA New England (617) 918-1510
5 Post Office Square
Boston, MA 02109

BMP: Map of Storm Sewer System

BMP Number (Optional) 16

Phase I Completed
(by year 2) ☒

Phase II Completed
(by year 10) ☐

Document Location and/or Web Address: Refer to Appendix B "Storm System Map" of the Town of Holden IDDE Plan

Description:

Create map and update during IDDE program completion.

Responsible Department/Parties: DPW

Measurable Goal(s):

Map outfalls and receiving 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 outfalls 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) 17

Written Document Completed (by year 1) ☒

Document Name and/or Web Address: Illicit Discharge Detection and Elimination (IDDE) Plan

<https://www.holdenma.gov/departments-of-public-works/pages/stormwater-information>

Description:

Created written IDDE program. Implement catchment investigations according to program and permit conditions. Conduct dry weather and wet weather screening as necessary.

Responsible Department/Parties: DPW

Measurable Goal(s):

Conduct outfall screening on High and Low Priority Outfalls within 3 years of the permit's effective date. Complete catchment investigations of the Problem Outfalls within 7 years of the permit's effective date. Complete 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:

Table 5-1 "Outfall Inventory and Priority Ranking Matrix" of the Town of Holden IDDE Plan

BMP: Employee Training

BMP Number (Optional) 18 _____

Description:

Train employees on IDDE implementation.

Responsible Department/Parties: DPW, Board of Health, Conservation Commission, Planning and Development

Measurable Goal(s):

Training occurs between March and May annually. See training record signature sheet in appendix E of IDDE Plan

BMP: Implement IDDE program

BMP Number (Optional) 19 _____

Completed ☐

Document Name and/or Web Address: The Town of Holden Illicit Discharge Detection and Elimination (IDDE) Plan

Description:

Developed written procedures for catchment investigations. Upon finding evidence of an IDDE, catchment investigations for the associated outfall shall begin. The data collected from the catchment investigation shall be reported in each annual report. Dry weather inspections will begin with Key Junction Manholes that will be systematically inspected and sampled (only if flow is present) to determine the source of the IDDE. If results indicate a potential IDDE or SSO, upstream investigations will continue. If no evidence is found, the investigation is considered complete. Investigations of key junction manholes will be completed by year 10.

See "The Town of Holden Illicit Discharge Detection and Elimination (IDDE) Plan" for more information and details

Responsible Department/Parties: DPW

Measurable Goal(s):

Complete 10 years after effective date of permit

BMP: Conduct dry weather screening

BMP Number (Optional) 20 _____

Completed ☐

Document Name and/or Web Address: Conduct dry weather screening

Description:

Conduct in accordance with outfall screening procedure and permit requirements.

Responsible Department/Parties: DPW

Measurable Goal(s):

Complete 3 years after effective date of permit

BMP:Conduct wet weather screening

BMP Number (Optional) 21

Completed ☐

Document Name and/or Web Address: Conduct wet weather screening

Description:

Conduct in accordance with outfall screening procedure and permit requirements.

Responsible Department/Parties: DPW

Measurable Goal(s):

Conduct in accordance with outfall screening procedures and permit conditions.

Add BMP

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: Sediment and Erosion Control Ordinance

BMP Number (Optional) 22

Completed (by May 1, 2008) ☒

Ordinances Link or Reference: Article XXIV - Stormwater Management Bylaw, Approved at Town Meeting June 29, 2020 (replaced Article XXV - Illicit Discharge Control)
<https://www.holdenma.gov/departments-of-public-works/pages/stormwater-information>

Department Responsible for Enforcement: DPW, Planning Board

BMP: Site Plan Review Procedures

BMP Number (Optional) 23

Written procedures completed (by year 1) ☒

Document Name and/or Web Address: Construction Site Stormwater Runoff Control Program Procedures

Description:

Complete written procedures of site plan review and begin implementation. Review all Land Disturbance Permits and Plans.

Responsible Department/Parties: DPW, Planning Board, Conservation Committee

Measurable Goal(s):

Conduct site plan review of projects according to the procedures outlined above. Measurable goal will be to track the submitted number of Land Disturbance Permits, which include developments greater than 20,000 sq. ft.

BMP: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures

BMP Number (Optional) 24

Completed (by year 1) ☒

Document Name and/or Web Address: Construction Site Stormwater Runoff Control Program Procedures

Description:

Complete written procedures of site inspections and enforcement procedures. Conduct site inspections of all projects subject to Subdivision control and Land Disturbance permits (conducted in 2020).

Responsible Department/Parties: DPW, Conservation Agent, Planning Agent

Measurable Goal(s):

Inspect construction sites as outlined in the above document and take enforcement actions as needed.

BMP:Erosion and Sediment Control

BMP Number (Optional) 22A

Completed ☒

Document Name and/or Web Address: Article XXIV - Stormwater Management Bylaw, Approved at Town Meeting June 29, 2020 (replaced Article XXV - Illicit Discharge Control)
<https://www.holdenma.gov/department-of-public-works/pages/stormwater-information>

Description:

Adoption of requirements for construction operators to implement a sediment and erosion control program.

Responsible Department/Parties: DPW, Planning Board, Conservation Committee

Measurable Goal(s):

Complete within 1 year of the effective date of permit.

BMP:Waste Control

BMP Number (Optional) 25

Completed ☒

Document Name and/or Web Address: Article XXIV - Stormwater Management Bylaw, Approved at Town Meeting June 29, 2020 (replaced Article XXV - Illicit Discharge Control)
<https://www.holdenma.gov/department-of-public-works/pages/stormwater-information>

Description:

Requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes will be included into the Town's updated Subdivision Rules and Regulation. Requirements have also been included into the Construction Site Stormwater Runoff Control Plan.

Responsible Department/Parties: DPW, Planning Board, Conservation Committee, Board of Health

Measurable Goal(s):

Include requirements listed above into the Construction Site Stormwater Runoff Control Plan within 1 year of the effective date of permit. Requirements will be included in the next revision of the Town Subdivision Regulations.

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) 26

Completed (by year 2) ☐

Town Ordinances Link or Reference: Subdivision Rules and Regulations (90% draft) and the Stormwater Management Rules and Regulations (75% draft)

Department Responsible for Enforcement: DPW, Con. Com., Planning Board, Dept. Planning & Development

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) 27

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.

Responsible Department/Parties: DPW, Planning and Development

Measurable Goal(s):

Work with the CMRSWC to develop the Street and Parking Lot Guidelines Report

BMP: Green Infrastructure Report

BMP Number (Optional) 28

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist.

Responsible Department/Parties: DPW, Planning and Development

Measurable Goal(s):

Work with the CMRSWC to develop the Street and Parking Lot Guidelines Report

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) 29

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually.

Responsible Department/Parties:

Measurable Goal(s):

Create the list by 2022 and updated as needed.

BMP:As-built Plans for On-site Stormwater Control

BMP Number (Optional) 30

Completed ☐

Document Name and/or Web Address:

Subdivision Rules and Regulations (90% draft) and the Stormwater Management Rules and Regulations (75% draft)

Description:

The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP.

Responsible Department/Parties:

Measurable Goal(s):

The submission of as-built plans for completed projects are required for all subdivision plans, site plan reviews and any project defined as Major, under the Land Disturbance Permit. Requirements and Procedures are developed in the Subdivision Rules and Regulations for Stormwater Management Rules and Regulations.

BMP:New development and redev. meet retention/treatment requirements of permit & MA SW Handbook

BMP Number (Optional) 31

Completed ☐

Document Name and/or Web Address:

Subdivision Rules and Regulations (90% draft) and the Stormwater Management Rules and Regulations (75% draft)

Description:

Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements

Responsible Department/Parties: DPW, Con. Com., Planning Board, Department of Planning and Developm

Measurable Goal(s):

Complete 2 years after effective date of permit

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 Pollution 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) 32A

Written Document Completed (by year 2) ☒

Document Name and/or Web Address: SOP 19: Operations and Maintenance of Parks and Open Spaces

Description:

Create written O&M procedures including requirements contained in 2.3.7.a.ii for parks and open spaces.

Responsible Department/Parties: DPW, Recreation Department

Measurable Goal(s):

Implement the SOP listed above for the parks and open spaces.

Properties List (Optional):

See Table "Inventory of Municipal Parks and Open Spaces" in SOP 19.

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) 32B

Written Document Completed (by year 2) ☒

Document Name and/or Web Address: SOP 20: Operations and Maintenance of Municipal Buildings and Facilities

Description:

Create written O&M procedures including requirements contained in 2.3.7.a.ii for buildings and facilities.

Responsible Department/Parties: DPW

Measurable Goal(s):

Implement the SOP listed above for buildings and facilities.

Properties List (Optional):

See Table "Inventory of Municipal Buildings and Facilities" in SOP 20.

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) 32C

Written Document Completed (by year 2) ☒

Document Name and/or Web Address:	SOP 21: Operations and Maintenance of Municipal Vehicles and Equipment
Description:	Create written O&M procedures including requirements contained in 2.3.7.a.ii for vehicles and equipment.
Responsible Department/Parties:	DPW, Recreation Dept, Light Dept, PSB, WRSD.
Measurable Goal(s):	Implement the SOP listed above for vehicles and equipment according to the above document.
Properties List (Optional):	See Table "Inventory of Municipal Vehicles and Equipment" in SOP 21.

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) 33	Written Procedure Completed (by year 2) <input checked="" type="checkbox"/>
Document Name and/or Web Address:	Municipal Stormwater Infrastructure Operation and Maintenance Plan
Description:	Establish and implement program for repair and rehabilitation of MS4 infrastructure.
Responsible Department/Parties:	DPW
Measurable Goal(s):	Infrastructure is maintained to ensure proper function in accordance with the procedures above.

BMP: Catch Basin Cleaning Program

BMP Number (Optional) 34	Written Procedure Completed (by year 1) <input checked="" type="checkbox"/>
Document Name and/or Web Address:	Municipal Stormwater Infrastructure Operation and Maintenance Plan
Description:	Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule.

Responsible Department/Parties: DPW

Measurable Goal(s):

Catch basins are cleaned in accordance to the document above such that no catch basin is more than 50% full at any given time.

BMP: Street Sweeping Program

BMP Number (Optional) 35

Written Procedure Completed (by year 1) ☒

Document Name and/or Web Address:

Municipal Stormwater Infrastructure Operation and Maintenance Plan

Description:

Sweep streets and permittee-owned parking lots in accordance with permit conditions.

Responsible Department/Parties: DPW

Measurable Goal(s):

Annually sweep streets and municipal parking lots in accordance with the schedule listed in the O&M Plan.

BMP: Winter Road Maintenance Program

BMP Number (Optional) 36

Written Procedure Completed (by year 1) ☒

Document Name and/or Web Address:

Municipal Stormwater Infrastructure Operation and Maintenance Plan

Description:

Establish and implement a program to minimize the use of road salt.

Responsible Department/Parties: DPW

Measurable Goal(s):

The Operation and Maintenance Plan will be established within one year of the effective date of the permit and an evaluation of salt/chloride alternative for use in the municipality will be evaluated. Continue use of treated salt that meets the requirements of EPA and/or Pacific Northwest Snow-fighters Safer Choice.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) 37

Completed (by year 1) ☒

Document Name and/or Web Address: Municipal Stormwater Infrastructure Operation and Maintenance Plan

Description:

Establish and implement inspection and maintenance procedures and frequencies.

Responsible Department/Parties: DPW, Planning & Development

Measurable Goal(s):

Inspect and maintain treatment structures to ensure proper function.

BMP: SWPPP

BMP Number (Optional) 38

Completed (by year 2) ☒

Document Name and/or Web Address: Stormwater Pollution Prevention Plan (SWPPP) - Adams Road DPW Garage Facility, 87 Adams Road Holden, MA

Description:

Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities.

Responsible Department/Parties: DPW

Measurable Goal(s):

Develop and implement SWPPPs for the Adams Road DPW Garage Facility within 2 years of the effective date of the permit

BMP:Inventory All Permittee-owned Parks, Open Spaces, Buildings, Facilities, Vehicles and Equipment

BMP Number (Optional) 39

Completed ☒

Document Name and/or Web Address: See SOP 19, 20 and 21

Description:

Create Inventory.

Responsible Department/Parties: DPW, Light Dept, Police and Fire, WRSD

Measurable Goal(s):

Complete 2 years after effective date of permit and implement annually.

Add BMP

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

Year 2 Annual Report

Document Name and/or Web Address:

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 Impairment(s) and/or TMDL(s).

Impairment(s)

- ☐ Bacteria/Pathogens ☐ Chloride ☐ Nitrogen ☐ Phosphorus
- ☐ Solids/oil/grease (hydrocarbons)/metals

TMDL(s)

In State:

- ☐ Assabet River Phosphorus ☐ Bacteria and Pathogen ☐ Cape Cod Nitrogen
- ☐ Charles River Watershed Phosphorus ☐ Lake and Pond Phosphorus

Out of State:

- ☐ Bacteria and Pathogen ☐ Metals ☐ Nitrogen ☐ Phosphorus

Clear Impairments and TMDLs