

Stormwater Management Program (SWMP)

Chelmsford

9 Alpha Road MA 01824

EPA NPDES Permit Number MAR041185

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

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)

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	Christina Papadopoulos	Title	Town Engineer
Department	Department of Public Works		
Phone Number	978-250-5228	Email	cpapadopoulos@townofchelmsford.us
Responsibilities	Management of the stormwater program		

SWMP Team

Name	Stephen Jahnle	Title	Assistant DPW Director
Department	Department of Public Works		
Phone Number	978-250-5228	Email	sjahnle@townofchelmsford.us
Responsibilities	Stormwater Division Department Head		

Name	Evan Belansky	Title	Director of Community Development
Department	Community Development		
Phone Number	978-250-5231	Email	ebelansky@townofchelmsford.us
Responsibilities	Oversees Community Development and the rules and regulations related to development.		

Name	Katie Guertin	Title	Conservation Agent/Planner
Department	Community Development		
Phone Number	978-250-5231	Email	kguertin@townofchelmsford.us
Responsibilities	Enforcing agent for conservation areas.		

Name	Gary Persichetti	Title	Director of Public Works
Department	Department of Public Works		
Phone Number	978-250-5228	Email	gpersichetti@townofchelmsford.us
Responsibilities	Responsible for the overall duties of the Department of Public Works and the enforcing agent for stormwater bylaws.		

Name	Kathleen Canavan	Title	Facilities Manager
Department	Department of Public Works		
Phone Number	978-250-5270	Email	kcanavan@townofchelmsford.us
Responsibilities	<p>The Facilities Division manages all public buildings and grounds. There are presently 29 buildings consisting of five elementary schools, two middle schools, Chelmsford High School, the school administration building, two town libraries, five fire stations, police station, Old Town Hall, North Town Hall, and other support buildings. The department is also responsible for managing all major building-related capital improvements.</p> <p>In addition, the Facilities Division is responsible for maintaining all town and school parks and athletic fields. Department personnel mow all sports fields and turf areas, trim shrubs, collect rubbish at parks and playgrounds, weed, edge, and mulch shrub beds. Our staff is also responsible for snow removal as well as the preparation and clean-up for special events.</p>		

Name	Mike Vosnakis	Title	Sewer Superintendent
Department	Department of Public Works		
Phone Number	978-250-5233	Email	mvosnakis@townofchelmsford.us
Responsibilities	<p>Oversees the sewer division and operations.</p> <p>The Sewer Operations staff performs sewer connection inspections, maintenance, repairs, and upgrades of the 41 sewer pump stations and 190 miles of public sewer lines as necessary.</p> <p>They also perform building grounds maintenance to the pump stations and any other duties that keep the sewer system operating smoothly.</p>		

Name	<input type="text" value="Nick Parlee"/>	Title	<input type="text" value="Recycling and Solid Waste Manager"/>
Department	<input type="text" value="Department of Public Works"/>		
Phone Number	<input type="text" value="978-250-5203"/>	Email	<input type="text" value="nparlee@townofchelmsford.us"/>
Responsibilities	<input type="text" value="Coordination of the recycling and solid waste removal."/>		

Name	<input type="text" value="Sue Rosa"/>	Title	<input type="text" value="Public Health Director"/>
Department	<input type="text" value="Board of Health"/>		
Phone Number	<input type="text" value="978-250-5241"/>	Email	<input type="text" value="srosa@townofchelmsford.us"/>
Responsibilities	<input type="text" value="Household Hazardous Waste removal days.
Enforcing agent for dumping hazardous substances or spills."/>		

Name	<input type="text" value="Shaun Shanahan"/>	Title	<input type="text" value="Building Commissioner"/>
Department	<input type="text" value="Building Inspector"/>		
Phone Number	<input type="text" value="978-250-5225"/>	Email	<input type="text" value="sshanahan@townofchelmsford.us"/>
Responsibilities	<input type="text" value="Issues permits for all new buildings and renovations, electrical, plumbing and gas, signs, and yard sales. The staff enforces state building, plumbing, gas, and electrical codes as well as local zoning bylaws."/>		

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:

<https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/chelmsford.pdf>

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
Merrimack River	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"/>	Mercury in fish tissue, Fecal Coliform
Concord River	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fecal coliform Eurasian Water Milfoil, Myriophyllum spicatum Non-Native aquatic plants Mercury in fish tissue
Freeman Lake/Newfield Pond	22	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 Non-Native aquatic plants Mercury in fish tissue
River Meadow Brook	62	<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"/>	Debris/Floatables/Trash Non-Native Aquatic Plants Fecal Coliform

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	
		<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"/>
Black Brook	55	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Debris/Floatables/Trash Physical substrate habitat alterations Aquatic Macroinvertebrate Bioassessments Fishes Bioassessments Sedimentation/Siltation	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Habitat Assessment (Streams) Aquatic Macroinvertebrate Bioassessments Fishes Bioassessments Sedimentation/Siltation	
		<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 checked="" type="checkbox"/>	<input type="checkbox"/>	Aquatic Macroinvertebrate Bioassessments
		<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"/>	Fishes Bioassessments
		<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"/>	Sedimentation/Siltation
		<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"/>	Habitat Assessment (Streams)
		<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"/>	Aquatic Macroinvertebrate Bioassessments
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		<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"/>	Aquatic Macroinvertebrate Bioassessments
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Deep Brook	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
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Stony Brook	29	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
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Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	<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"/>		
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		<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"/>		
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		<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"/>		
Cold Spring Brook	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Golden Cove Brook	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"/>			

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)

- Publicly available at the website listed below

<https://www3.epa.gov/region1/npdes/stormwater/ma/tms4noi/chelmsford.pdf>

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):

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):

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:Public Education - Erosion Control

BMP Number (Optional) 1-1

Document Name and/or Web Address: Erosion Control Requirements

Description:

Distribute information about erosion control requirements to all developers who get building permits, trench permits, sewer permits or road opening permits.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Building Dept. and DPW

Measurable Goal(s):

Number of flyers handed out and ultimately how many construction sites have adequate erosion control installed.

Message Date(s): Beginning April 2019

BMP: Public Education - Residents presentation

BMP Number (Optional) 1-2

Document Name and/or Web Address: Library Presentation

Description:

Present information about stormwater pollution. Pet waste, grass clippings, leaf collection and yard waste. outlining all the free events the Town offers to help residents with these waste items. Explaining how our bylaws protect the environment with fines for illegal dumping.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

Number of people attending presentation (30)
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Message Date(s): April 9, 2019

BMP:Public Education - Residents brochure

BMP Number (Optional) 1-3

Document Name and/or Web Address: Stormwater Utility Brochure

Description:

Brochure mailed to every mailbox in Chelmsford explaining the Stormwater Utility with tips on how to reduce stormwater pollution in our everyday lives.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Number of flyers mailed. 16,000 flyers mailed

Message Date(s): January 2019

BMP:Public Education - Residents cable tv

BMP Number (Optional) 1-4

Document Name and/or Web Address: Cable TV PSA

Description:

Run various PSA on Local Cable TV at different times a year to promote pet waste removal, low phosphorous fertilizer, grass clipping disposal.

Targeted Audience: Residents

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP:Public Education

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:

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:

Description:

Targeted Audience: Residents

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP:[BMP name here]

BMP Number (Optional) _____

Document Name and/or Web Address:

Description:

Targeted Audience:

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:

Measurable Goal(s):

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) 2-2 _____

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Catch Basin Stenciling/Markers

BMP Number (Optional) 2-3 _____

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Cleanup Days/Roadside

BMP Number (Optional) 2-4

Document Name and/or Web Address:

Description:

Every Year the residents are encouraged to pick up roadside litter and dispose them into FREE yellow trash bags. The Town collects all the trash bags to dispose of them.

Responsible Department/Parties:

Measurable Goal(s):

Number of trash bags distributed and/or collected.

BMP: Annual Household Hazardous Waste Collection Day

BMP Number (Optional) 2-5

Document Name and/or Web Address:

Description:

Every year we offer a FREE collection of all household hazardous waste. Opportunities for disposal during other times of the year are also offered.

Responsible Department/Parties:

Measurable Goal(s):

Number of participants

Add BMP

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:

Department Responsible for Enforcement:

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) 3-2

Completed (by year 1)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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.

<p>The MassDEP contacts are:</p> <ul style="list-style-type: none">Northeast Region (978) 694-3215205B Lowell StreetWilmington, MA 01887Central Region (508) 792-76508 New Bond StreetWorcester, MA 01606Southeast Region (508) 946-275020 Riverside DriveLakeville, MA 02347Western Region (413) 784-1100436 Dwight StreetSpringfield, MA 0110324-hour Emergency Line 1-888-304-1133	<p>The EPA contacts are:</p> <ul style="list-style-type: none">EPA New England (617) 918-15105 Post Office SquareBoston, MA 02109
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BMP: Map of Storm Sewer System

BMP Number (Optional) 3-3

Phase I Completed
(by year 2)

Phase II Completed
(by year 10)

Document Location and/or Web Address:

Description:

Keep updating the storm drain map regularly. Work towards having 100% mapped.

Responsible Department/Parties:

Measurable Goal(s):

Map 100% of 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 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:

Description:

Year 1-create a written IDDE program. Update as required.

Responsible Department/Parties:

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:

In the office of the Engineering Division at the DPW on 9 Alpha Road, Chelmsford, MA.

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BMP: Employee Training

BMP Number (Optional) 3-5

Description:

Ongoing training to all current and new employees on the proper procedure to inspect, locate, remediate and track illicit discharges.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Training occurs annually in the spring once the snow melts. March/April

BMP: Dry Weather Screening

BMP Number (Optional) 3-6

Completed

Document Name and/or Web Address: Outfall test results FY2019

Description:

Conduct dry weather screening in accordance with permit requirements

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Number of outfalls tested. 100% completed by July 2021.

BMP:Wet Weather Screening

BMP Number (Optional) 3-7

Completed

Document Name and/or Web Address: Outfall test results FY2019

Description:

Conduct wet weather screening in accordance with permit requirements

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Number of outfalls tested. 100% completed by July 2028.

BMP: Private Drainage Connections Procedures

BMP Number (Optional) 3-8

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: Sediment and Erosion Control Ordinance

BMP Number (Optional) 4-1

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Site Plan Review Procedures

BMP Number (Optional) 4-2

Written procedures completed (by year 1)

Document Name and/or Web Address:
Chelmsford Site Plan Checklist

Description:

Responsible Department/Parties:

Measurable Goal(s):

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

BMP Number (Optional) 4-3

Completed (by year 1)

Document Name and/or Web Address:
Construction Site Inspection Form and Procedures
Erosion and Sediment Control Inspection Form and Procedures

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Waste Control requirements

BMP Number (Optional) 4-4

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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)

Town Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) 5-2

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Green Infrastructure Report

BMP Number (Optional) 5-3

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) 5-4 _____

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

The list is completed by (DATE) and updated as needed.

BMP:[BMP name here]

BMP Number (Optional) 5-5 _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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) 6-1

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Properties List (Optional):

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) 6-2

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Properties List (Optional):

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- .
- .
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BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) 6-3

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Properties List (Optional):

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) 6-4

Written Procedure Completed (by year 2)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Catch Basin Cleaning Program

BMP Number (Optional) 6-5

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

Description:

Establish a schedule for cleaning all catch basins when they are more than 50% full.

Responsible Department/Parties: DPW

Measurable Goal(s):

All 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) 6-6

Written Procedure Completed (by year 1)

Document Name and/or Web Address: Chelmsford Street Sweeping Program

Description:

Establish a program for sweeping all streets and parking lots.

Responsible Department/Parties: DPW

Measurable Goal(s):

Annually sweep 100% of all streets and 50% of all municipal parking lots in accordance with the schedule listed above.

BMP: Winter Road Maintenance Program

BMP Number (Optional) 6-7

Written Procedure Completed (by year 1)

Document Name and/or Web Address: Chelmsford Road Salt Management Program

Description:

Establish a program to minimize the use of road salt.

Responsible Department/Parties: DPW

Measurable Goal(s):

Implement salt use optimization during deicing season.
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BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) 6-8 _____

Completed (by year 1)

Document Name and/or Web Address: Chelmsford Stormwater Treatment Structure Maintenance Program

Description:

Establish a program to inspect and maintain 100% of the treatment structures so that they properly function.

Responsible Department/Parties: DPW

Measurable Goal(s):

Inspect and maintain 100% of treatment structures to ensure proper function.

BMP: SWPPP

BMP Number (Optional) 6-9 _____

Completed (by year 2)

Document Name and/or Web Address: _____

Description:

Responsible Department/Parties: _____

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities.

BMP:

BMP Number (Optional) 6-10 _____

Completed

Document Name and/or Web Address: _____

Description:

Responsible Department/Parties:

Measurable Goal(s):

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

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Concord River	Phosphorous and Fecal Coliform	<input type="checkbox"/> + <input type="checkbox"/> -
Merrimack River	Fecal Coliform	<input type="checkbox"/> + <input type="checkbox"/> -
River Meadow Brook	Fecal Coliform	<input type="checkbox"/> + <input type="checkbox"/> -
Black Brook	E. Coli and Turbidity	<input type="checkbox"/> + <input type="checkbox"/> -
Deep Brook	E. Coli	<input type="checkbox"/> + <input type="checkbox"/> -
Heart Pond	E. Coli	<input type="checkbox"/> + <input type="checkbox"/> -
Stony Brook	E. Coli	<input type="checkbox"/> + <input type="checkbox"/> -

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

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

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))

Annual message 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:

Library Presentation; Stormwater Utility Brochure, Town Talk

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Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

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

Pet Waste Brochure, Library Presentation, Town Talk

Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

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

N/A

Solids, Oil and Grease (Hydrocarbons), or Metals

Combination of Impaired Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Black Brook	Turbidity	<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

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

Chelmsford's IDDE Program

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

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

6-6 Chelmsford Street Sweeping Program

Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings

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

6-5 Chelmsford Catch Basin Cleaning Program

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Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event

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

Revise the current ordinances to comply with the requirements of the 2016 permit.

Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Concord River		<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

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

3-4 Chelmsford's IDDE Program

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:

Library Presentation; Stormwater Utility Brochure; Cable TV PSA

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:

Library Presentation; Stormwater Utility Brochure; Cable TV PSA

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

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

Library Presentation; Stormwater Utility Brochure; Cable TV PSA

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)

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

6-6 Chelmsford Street Sweeping Program

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:

6-1 O&M Parks and Open Space

Stormwater 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:

<https://www.townofchelmsford.us/DocumentCenter/View/315/SitePlanRegulations-8-12-09>

Nitrogen Reduction Tracking BMP

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.

The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in pass per year by the BMP is found in the following document or website and is updated yearly at a minimum:

No Nitrogen

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for phosphorus removal

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

<https://www.townofchelmsford.us/DocumentCenter/View/315/SitePlanRegulations-8-12-09>

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

The document name (if attached) and/or web address is/are:

To be completed by June 2022

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible

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 completed by June 2022

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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:

To be completed by June 2023

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:

To be completed by June 2023