

Stormwater Management Program (SWMP)

TOWN OF GREENLAND, NH

11 Town Square, P.O. Box 100 NH 03840

EPA NPDES Permit Number NHR041000

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

<https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

“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)

The Town of Greenland has a population 3,549 and 10.5 square miles or 6,720 acres of land and water. The town's MS4 area covers roughly 65 percent of the total area of land and water and borders The Great Bay and the tidal and freshwater Winnicunet River. Greenland is part of the great Portsmouth urbanized area.

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	<input type="text" value="Matt Scruton"/>	Title	<input type="text" value="Town Administrator"/>
Department	<input type="text" value="Board of Selectmens Office"/>		
Phone Number	<input type="text" value="(603) 431-7111 ext-100"/>	Email	<input type="text" value="mscruton@greenland-nh.com"/>
Responsibilities	<input type="text" value="Oversee implementation and enforcement of the EPA 2017 MS4 Permit."/>		

SWMP Team

Name	<input type="text" value="Charlotte Hussey"/>	Title	<input type="text" value="Administrative Assistant"/>
Department	<input type="text" value="Board of Selectmen"/>		
Phone Number	<input type="text" value="(603) 431-7111 ext-108"/>	Email	<input type="text" value="chussey@greenland-nh.com"/>
Responsibilities	<input type="text" value="Assist with implementation and enforcement of the EPA 2017 MS4 Permit."/>		

Name	<input type="text"/>	Title	<input type="text"/>
Department	<input type="text"/>		
Phone Number	<input type="text"/>	Email	<input type="text"/>
Responsibilities	<input type="text"/>		

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:

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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"/>	
NHEST600030904-03 Great Bay Prohib SZ2		<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, polychlorinated biphenyls, light attenuation coefficient, estuarine bioassessments
NHEST600030904-02 Great Bay Prohib SZ1		<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"/>	Dioxin, Mercury, pH, estuarine bioassessments, light attenuation coefficient
NHEST600030904-02 Great Bay - Cond Appr		<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"/>	Dioxin, fecal coliform, Mercury, light attrnuation coefficient, estuarine bioassessments, polychlorinated biphenyls
NHIMP600030901-02 Winnicunnet River Dam Pond		<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"/>	Mercury, pH, dissolved oxygen
NHRIV600030901-02 Winnicut River - Barton, Marsh Thompson Brooks		<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"/>	Mercury, dissolved oxygen

NHEST600030904-04-03 Pickering Brook	<input checked="" 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"/>	Dioxin, estuarine bioassessments, light attenuation coefficient, Mercury, polychlorinated biphenyls
NHRIV600030901-03 Haines Brook	<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"/>	Mercury
NHEST600030904-01 Winnicut River	<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"/>	Dioxin, estuarine bioassessments, fecal coliform, Mercury, polychlorinated biphenyls
NHRIV600030901-05 Packer Brook	<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"/>	Dissolved oxygen saturation, Mercury, pH
NHRIV600030904-05 Foss Brook	<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"/>	Mercury
NHRIV600030904-13 Shaw Brook	<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"/>	Mercury
NHRIV600030904-21 Unnamed Brook to Great Bay	<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"/>	Mercury
NHRIV600031002-01 Berry's Brook	<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"/>	Dissolved oxygen saturation, Mercury, pH
NHRIV600030904-06 Pickering Brook	<input checked="" 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"/>	Copper, dissolved oxygen saturation, Iron, Mercury, pH
	<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)

- Publicly available at the website listed below

<http://town-atkinsonnh.com/MS4.html>

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

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: PEO-1

BMP Number (Optional) Baseline-1

Document Name and/or Web Address:

Description:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: PEO-2

BMP Number (Optional) Impair-1

Document Name and/or Web Address:

Description:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: Household Hazardous Waste Day

BMP Number (Optional) HHW

Document Name and/or Web Address: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:
Hazardous Waste Clean Up Day - reduces disposal of hazardous waste down drains and into septic systems or into stormwater system. Material was posted on Town social media and at the town hall. Announcements were made during Select Board televised meetings.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator

Measurable Goal(s):
An increase in the number of residents disposing of hazardous waste properly and number of residents informed of the event. Over 193 people were reached via social media. The collection event will occur on October 5, 2019; waste amount collected will be recorded and reported in Year 2 annual report and tracked by the town.

Message Date(s): 9/19/2019

BMP: Septic System Maintenance

BMP Number (Optional) SSM-1

Document Name and/or Web Address: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:
Provide septic system information regarding proper maintenance to property owners. During EPA Septic Smart Week daily tips were posted on Town social media, and informational posters and flyers were available at the town hall. Announcements were made during Select Board televised meetings, with 54 people viewing the meeting.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator

Measurable Goal(s):
Increase in number of residents informed of proper system maintenance and reduced incidents of failing systems. 1,529 individuals were reached via the town social media postings regarding septic tips.

Message Date(s): 9/16/19 through 9/20/2019

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):

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):

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) PP-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) PP-2

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: [BMP name here]

BMP Number (Optional) _____

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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) IDDE-1

Completed (by May 1, 2008)

Ordinances Link or Reference: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Department Responsible for Enforcement: [Town Administrator and Board of Selectmen Adopted 10/21/19](#)

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) N/A

Completed (by year 1)

Document Name and/or Web Address:

Description:

Not Applicable. The town has no sanitary sewer overflow (SSO) system.

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 EPA. Follow up the verbal notification with a written notification to EPA and Nhdes within five days of becoming aware of the SSO occurrence..

The NHDES contacts are: (603) 271-3503 Mailing: PO Box 95 Concord, NH 03302-0095	The EPA contacts are: EPA New England (617) 918-1510 5 Post Office Square Boston, MA 02109
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BMP: Map of Storm Sewer System

BMP Number (Optional) SSS-1

Phase I Completed
(by year 2)

Phase II Completed
(by year 10)

Document Location and/or Web Address: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:

Preliminary mapping of outfalls completed in Permit Year 1.

Responsible Department/Parties: Town Administrator and Road Agent/Highway Department

Measurable Goal(s):

Map 100% of outfalls and receiving waters, open channel conveyances, and interconnections with other 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 within 10 years of the permit's effective date.

BMP: IDDE Program

BMP Number (Optional) IDDE-2

Written Document Completed (by year 1)

Document Name and/or Web Address: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:

At their September 30, 2019 meeting, the Board of Selectmen reviewed a draft IDDE Ordinance and Program which establishes the town's authority to prohibit illicit discharges to their MS4 system. The Selectmen voted to forward the draft IDDE Ordinance and Program, with revisions, for a public hearing and adoption as a Selectmen's ordinance. In June 2021, a draft IDDE Program Implementation and IDDE Incident Reporting Form was developed.

Responsible Department/Parties: Town Administrator, Planning Board and Selectmen

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:

Not Applicable. The town has no sanitary sewer system. Water quality sampling will be conducted for identified MS4 jurisdictional outfalls.

BMP: Employee Training

BMP Number (Optional) IDDE-3

Description:

High Department and Code Enforcement/Building Inspector review IDDE ordinance and administrative

program annually.

Responsible Department/Parties: Town Administrator and Highway Department

Measurable Goal(s):

Training occurs in June annually. Greenland staff completed an IDDE training workshop conducted by the Rockingham Planning Commission on June 16, 2021. The draft IDDE Program Implementation and Incident Reporting Form was reviewed as well the adopted IDDE ordinance and administrative program, SWMP and SWPPP documents.

BMP: [BMP name here]

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: _____

Description:

Responsible Department/Parties: _____

Measurable Goal(s):

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) SEC-1

Completed (by May 1, 2008)

Ordinances Link or Reference: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Department Responsible for Enforcement: [Planning Board with Town Administrator](#)

BMP: Site Plan Review Procedures

BMP Number (Optional) SEC-2

Written procedures completed (by year 1)

Document Name and/or Web Address: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:

An audit was completed on September 30, 2019 to review the existing stormwater standards in the town's Site Plan Review Regulations and Subdivision Regulations for compliance with the MS4 permit. The audit and amendment recommendations were presented to the Planning Board for discussion at their October 3, 2019 meeting. The Rockingham Planning Commission will facilitate further discussion toward adoption of these regulation amendments at future meetings.

Responsible Department/Parties: [Planning Board with Town Administrator](#)

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) SEC-3

Completed (by year 1)

Document Name and/or Web Address: <https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:

An audit was completed on September 30, 2019 to review the existing stormwater standards in the town's Site Plan Review Regulations and Subdivision Regulations for compliance with the MS4 permit. The audit and amendment recommendations were presented to the Planning Board for discussion at their October 3, 2019 meeting. The Rockingham Planning Commission will facilitate further discussion toward adoption of these regulation amendments at future meetings.

Responsible Department/Parties: [Planning Board with Town Administrator and Code Enforcement](#)

Measurable Goal(s):

Inspect 100% of construction sites as outlined in the above document and take enforcement actions as needed.

BMP:[BMP name here]

BMP Number (Optional) _____

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) SWM-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) SWM-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) SWM-3

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) SWM-4

Completed (by year 4)

Document Name and/or Web Address:

Description:

To be completed.

Responsible Department/Parties:

Measurable Goal(s):

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

BMP: [BMP name here]

BMP Number (Optional) _____

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) POF-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) POF-2

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Properties List (Optional):

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) POF-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) POF-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) POF-5 **Written Procedure Completed (by year 1)**

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

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) POF-6 _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

<https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:

Approximately _____ miles of curbed roads and _____ acres of parking lots at municipal facilities are swept annually using a brush sweeper truck with a water spray system.

Responsible Department/Parties:

Highway Department with Town Administrator

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) POF-7 _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

<https://www.greenland-nh.com/home/pages/ms-4-stormwater-management>

Description:

The town contracts for its snow removal services. The current contractor was previously certified through the NH GreenSnowPro program. Arrangements for recertification will be made in fall 2019.

Responsible Department/Parties:

Highway Department with Town Administrator

Measurable Goal(s):

Evaluate at least one salt/chloride alternative for use in the municipality (refer to the Snow Removal Policy). Refresher course for the NH Green Sno Pro training to be completed in Year 2.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) POF-8 _____

Completed (by year 1)

<https://www.greenland-nh.com/home/pages/ms-4-stormwater->

Document Name and/or Web Address: management

Description:

The town will adopt standard operating procedures for inspection and maintenance of stormwater treatments structures.

Responsible Department/Parties: Highway Department with Town Administrator

Measurable Goal(s):

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

BMP: SWPPP

BMP Number (Optional) POF-9

Completed (by year 2)

Document Name and/or Web Address:

Description:

To be completed.

Responsible Department/Parties: Facilities Managers and Highway Department with Town Administrator

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):

Add BMP

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

<http://town-atkinsonnh.com/MS4.html>

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) (Appendix F)

- Bacteria/ Pathogens Chloride Lake and Pond Phosphorus

Clear Impairments and TMDLs

Alternative TMDL Plans (if applicable)

- Alternative Bacteria/Pathogens Reduction Plan

can be found (document name or web address):

- Alternative Chloride Reduction Plan

can be found (document name or web address):

- Alternative Lake and Pond Phosphorus Reduction Plan

can be found (document name or web address):

Phosphorus Impairment

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
NHLAK700061101-01-01- Island Pond	none	<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:

High priority outfalls include those located within the Island Pond subwatershed drainage area. A map of the subwatershed drainage area with priority outfalls noted will be completed in year 2. Refer to the outfall map posted to the Town's MS4 webpage.

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:

See MCM1 BMPs Baseline 1 and Impaired 1 for public education messages and requirements. These materials are also posted to the Town's MS4 webpage at <http://town-atkinsonnh.com/MS4.html>.

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:

See MCM1 BMPs Baseline 1 and Impaired 1 for public education messages and requirements. These materials are also posted to the Town's MS4 webpage at <http://town-atkinsonnh.com/MS4.html>.

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:

See MCM1 BMPs Baseline 1 and Impaired 1 for public education messages and requirements. These materials are also posted to the Town's MS4 webpage at <http://town-atkinsonnh.com/MS4.html>.

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:

See MCM6 BMP POF-6. Materials are also posted to the Town's MS4 webpage at <http://town-atkinsonnh.com/MS4.html>.

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:

SOP's for BMP's POF-1, POF-2, POF-4 and POF-9 will be completed in Year 2. All grass cuttings and leaf litter collected from permittee property are disposed of at the Town Recycling Center.

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:

A stormwater management regulation for new development and redevelopment will be prepared under BMP SWM-1 in Year 2 per MS4 Permit Section 2.3.6 and Appendix H Part II.1.a.2 for phosphorous impaired waterbodies.

Potential structural BMPs

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the phosphorus removal by the BMP consistent with Attachment 1 to Appendix H. Document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in pass per year by the BMP in each annual report

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

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:

A stormwater management regulation for new development and redevelopment will be prepared under BMP SWM-1 in Year 2.

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

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

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:

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: