

Year 5 Annual Report

New Hampshire Small MS4 General Permit

Reporting Period: July 1, 2022 - June 30, 2023

North Hampton

Prepared By:

**FB Environmental Associates, Adapted from Plans developed by
Seacoast and Lower Merrimack Valley Stormwater Coalitions**

Prepared For:

Town of North Hampton

EPA NPDES Permit Number NHR041024

Document Date – September 28, 2023

Certification of Small MS4 Year 5 Annual Report

"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:	Michael Tully
Title:	Town Administrator
Signature:	
Date:	9/27/23

Authorized Representative:

The authorization letter is:

Attached to this document (document name listed below):

N/A

Publicly available at the website:

N/A

Primary MS4 Program Manager Contact Information:

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Small MS4 Authorization

The following annual report, which serves as a self-assessment, is intended to document the activities undertaken over the **reporting period from July 1, 2022, through June 30, 2023**, in accordance with the Permit.

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

<https://www.epa.gov/npdes-permits/regulated-ms4-new-hampshire-communities>

<https://www3.epa.gov/region1/npdes/stormwater/nh/tms4noi/north-hampton.pdf>

Compliance activities have been identified and described in the North Hampton Stormwater Management Program Plan (SWMP) and Illicit Discharge Detection and Elimination (IDDE) Plan. Those documents and other pertinent Year 5 information can be found in submission or at the following websites, and will be referred to throughout this report:

SWMP:

https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/north_hampton_swmp_2021.pdf

Date SWMP was Last Updated: July 2021

IDDE Program Plan:

https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/n.hampton-seacoast-stormwater-idde-plan_2023.pdf

Updated System Map: see Appendix B – Storm System Mapping of the IDDE plan linked above for the Drainage System map and Impaired waters map.

Progress on Completion of System Map: The Drainage System map was completed in Year 2 of the permit (2020).

Updated SSO Inventory: Not applicable. The town of North Hampton has no sanitary sewer overflows.

Updated Inventory and Ranking of Outfalls/Interconnections: see the “Outfall Inventory and Priority Ranking Matrix” in the IDDE plan linked above.

Dry Weather Screening Data: see attached submission and/or attachment B in the Nitrogen Source Identification Report linked here: https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/nitrogen-source-identification-reportpotential-structuralbmmps-report-september2023_002.pdf

Wet Weather Screening Data: Wet weather sampling was not conducted in the Year 5 reporting period. Wet weather screening and sampling is anticipated to be done in Year 6 (2023-2024).

Catchment Investigation Data: A written catchment investigation procedure was prepared in Year 1.5. Catchment and problem catchment investigation is scheduled for Year 7 and Year 10 respectively.

Illicit Discharge Removal Report: None.

Results from additional stormwater or receiving water quality monitoring reports or studies:

Winnicut River Watershed Restoration and Management Plan (2017): <https://nhrivers.org/wp-content/uploads/2019/10/WinnicutRiverWRMP.pdf>

Salt Reduction Plan: Not applicable. However, the town has prepared a Winter Maintenance Plan to be proactive in preventing an impairment. The Winter Maintenance Plan is available at this link:

https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/winter-road-maintenance-plan-northhampton_updated_august_2023.pdf

Annual Salt Usage Report: Not applicable.

Updated Nitrogen Source Identification Report: https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/nitrogen-source-identification-reportpotential-structuralbmps-report-september2023_002.pdf

**This document was developed this year. North Hampton has previously thought that the town was exempt/relieved from complying with Part 2.2.2.a.i and Appendix H Part I requirements. However, during a Stormwater Coalition Meeting this year, representatives presented a list of permittees who have total nitrogen impairments or who drain to total nitrogen impaired waters supplied by EPA in the NH MS4 permit and North Hampton included. Notably, the Winnicut River is a tributary to an impaired waterbody, The Great Bay, however the segments of the Winnicut River within North Hampton are not impaired for nitrogen.*

Updated Phosphorus Source Identification Report: Not applicable.

Street Sweeping Schedule: Not applicable.

Chloride Reduction Plan: Not applicable.

Annual Salt Usage Report: Not applicable

Lake Phosphorus Control Plan: Not applicable.

Lake Phosphorus Control Plan (Items 1-4): Not applicable.

Self-Assessment

Select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the 2020/2022 EPA approved Section 303(d) Impaired Waters List which was used for the Year 5 reporting period and can be found on the [NHDES webpage](#).

All **Appendix F and H requirements** can be found under “Appendix F and H: Water Quality Limited Waters & TMDLs” section of this report.

Impairment(s)		
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input type="checkbox"/> Chloride	<input checked="" type="checkbox"/> Nitrogen*
<input type="checkbox"/> Phosphorus	<input type="checkbox"/> Solids/Oil/Grease (Hydrocarbons)/Metals	
TMDL(s)		
<input checked="" type="checkbox"/> Bacteria and Pathogens	<input type="checkbox"/> Chloride	<input type="checkbox"/> Lake and Pond Phosphorus

**The Winnicut River originates in North Hampton and is a tributary to the Great Bay, a waterbody impaired for nitrogen. However, the segments of the Winnicut River within North Hampton are not impaired for nitrogen. See updated list of receiving waters (based on the 2020/2022 303(d) Impaired Waters List) in the town's IDDE plan.*

Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

Yes

North Hampton has made changes to the list of receiving waters, outfalls, or impairments since the NOI submission. The following impairments and/or TMDLs have been added or delisted per the 2020/2022 303(d) Water Quality Impairments list:

Water Quality Impaired Waters:

- *None for impairments covered by the MS4 permit. Several watercourses are now also impaired for other parameters such as Dioxin, PCBs, pH, and mercury.*

TMDL:

- WINNICUT RIVER - UNNAMED BROOK - CORNELIUS BROOK (NHRIV600030901-01) - Escherichia coli
- WINNICUT RIVER - BARTON BROOK - MARSH BROOK - THOMPSON BROOK (NHRIV600030901-02) - Escherichia coli
- TRIB TO CHAPEL BROOK (NHRIV600031002-23) - Escherichia coli
- CHAPEL BROOK (NHRIV600031002-24) - Escherichia coli

No

North Hampton has not made changes to the list of receiving waters, outfalls, or impairments since the NOI submission.

The summary of receiving waters has been updated in the IDDE Plan.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

The Street Design and Green Infrastructure Regulatory Assessment Report and Inventory and Priority Ranking of Permittee-Owned Properties under MCM #5 were not completed in Year 4 but have been completed in Year 5. These reports are included as an attachment to this report.

Minimum Control Measures

MCM 1: Public Education

Total number of all MS4 related educational efforts completed ***during this reporting period:*** 21

Were any of the messages below different than what was proposed in your NOI?

No

Yes. ~~##MUNICIPALITY~~ made changes due to ~~##Reason changes were made.~~

BMP: Grass and Fertilizer

Outreach Resources:

Grass and fertilizer related flyers, mailers, postcards, videos, and social media posts found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of “Green Grass and Clean Water” **and/or** municipally created flyers, mailers, postcards, videos **and/or** social media posts. “Green Grass and Clean Water” materials were produced by UNH Cooperative Extension, NH Sea Grant, and NHDES outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

Targeted Audience:

Residential **and/or** Business and Institutions.

Responsible Department/Parties:

The Department of Public Works were responsible for this MS4 outreach effort.

Measurable Goal(s):

Residents that are lawn care enthusiasts understand the potential water quality impacts from fertilizer and improper disposal of grass clippings and are aware of the proper lawn care management techniques for reducing those impacts. Measurement includes quantity of materials distributed.

Following are the number of flyers, mailers, **and/or** postcards that were distributed ***during this reporting period:***

Year 5 = 0 of flyers

Year 5 = 0 of mailers

Year 5 = 0 of postcards

Year 5 = 1380 views of an email blast sent out to the community via the Town's Friday Folder's newsletter. Messaging on grass and fertilizer was sent out four times during the reporting period.

Following is the number of impressions the social media posts received ***during this reporting period:***

Year 5 = 0 of impressions

Following is the number of views the videos received ***during this reporting period:***

Year 5 = 1380 views of email blasts sent out to the community via the town's Friday Folder's newsletter! Messaging on grass and fertilizer was sent out four times during the reporting period.

Goal was achieved.

Message Date: Targeted outreach in spring (April & May). Emails sent out each Friday in those months.

BMP: Pet Waste Disposal

Outreach Resources:

Pet waste related flyers, mailers, postcards, and videos found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of "municipally created flyers, mailers, postcards, brochures, **and/or** videos with educational information about proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. May include the "Every Drop" pledge to pick up pet waste to be made available during dog registration and other events or venues (veterinarians, dog training, groomers, etc.). Every Drop is a collaborative education effort with PREP, NHDES and other partners.

Distribute Custom Brochures to pet owners thru Town Clerks Office at registration and Town Offices

Targeted Audience:

Residents - Pet Owners.

Responsible Department/Parties:

Town Clerk, Town Office, Library, and Public Works Departments were responsible for this MS4 outreach effort.

Measurable Goal(s):

Dog owners and/or dog walkers are aware of the potential water quality impacts from pet waste, local pet waste ordinances, and how to dispose of pet waste properly. If pledges are signed, there will be an increase of dog owners committed to picking up pet waste.

Following are the number of flyers, mailers, postcards, **and/or** brochures that were distributed **during this reporting period:**

Year 5 = 300 Brochures/Flyers

Year 5 = 0 of mailers

Year 5 = 0 of postcards

Following is the number of views the videos received **during this reporting period:**

Year 5 = 0 of views; The Town did not use videos for engagement.

Goal was achieved.

Message Date: Time of License Renewal

BMP: Disposal of Leaf and Grass Clippings

Outreach Resources:

Leaf and grass clippings related flyers, brochures, pledges, door hangers, and videos found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

North Hampton has implemented a composting effort/program through North Hampton's brush facility, allowing the public to drop off compostable materials at municipally owned properties, and/or providing educational materials on the water quality benefits of composting, etc.

North Hampton promotes disposal of leaf and grass clippings through brochures and Town wide e-mails on a regular basis as well as promote collection and composting at the brush facility.

The Town of North Hampton is planning to promote all MS4 topics at a town wide event hosted through the Recreation Department in the upcoming year.

Targeted Audience:

Residential **and/or** Business and Institutions

Responsible Department/Parties:

Town Office

Measurable Goal(s):

Residents are aware of the water quality impacts of yard waste dumping near or in water bodies and safe alternatives for yard waste disposal.

Following are the number of flyers, brochures, and door hangers that were distributed **during this reporting period:**

Year 5 = 0 of flyers

Year 5 = Unknown number of brochures

Year 5 = 0 of door hangers

Year 5 = 1388 views of an email blast sent out to the community via the Town's Friday Folder's newsletter.

Following is the number of residents that signed a yard waste pledge ***during this reporting period:***

Year 5 = 0 of residents; The Town did not run a yard waste campaign.

Following is the number of views the videos received ***during this reporting period:***

Year 5 = 0; The Town did not use videos for engagement.

North Hampton's Composting Program has received and processed 100 CY of material from residents at municipally owned properties ***during this reporting period.***

Goal was achieved.

Message Date: Targeted outreach during the summer and fall.

BMP: Septic System Maintenance

Outreach Resources:

Septic system related brochures, letters, videos **and/or** social media posts found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of Get Pumped NH, EPA, **and/or** municipally created brochures, letters, videos **and/or** social media posts educating New Hampshire homeowners with septic systems on how to identify, locate and maintain those systems. Get Pumped NH is a collaborated effort between the New Hampshire Association of Septage Haulers (NHASH) and the New Hampshire Department of Environmental Services (NHDES).

Targeted Audience:

Septic System Owners.

Responsible Department/Parties:

Department of Public Works was responsible for this MS4 outreach effort.

Measurable Goal(s):

Residents are aware of water quality impacts from septic systems, the importance of maintaining septic systems, and how to maintain them.

Following are the number of brochures and letters that were distributed ***during this reporting period:***

Year 5 = 0 of brochures

Year 5 = 0 of letters

Year 5 = approximately 36 fliers

Year 5 = 2776 views of an email blast sent out to the community via the Town's Friday Folder's newsletter.

Following is the number of impressions the social media posts received ***during this reporting period:***

Year 5 = 0 impressions

Following is the number of views the videos received ***during this reporting period:***

Year 5 = 0; The Town did not use videos for engagement.

Goal was achieved.

Message Date: Fall 2022 and Spring 2023

BMP: Industrial Outreach

Outreach Resources:

Industrial facilities related letter and fact sheets found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

- North Hampton does not have any industrial facilities located within the NH MS4 regulated area that are permitted under the NPDES Multi-Sector General Permit. This has been documented in North Hampton NOI and SWMP that this audience is absent from the municipality. No education or outreach efforts were conducted ***during this reporting period*** for the industrial audience as a result.
- Provided an outreach letter and Industrial Facilities Fact Sheet to the permittees that fall under the Multi-Sector General Permit and whose facilities are located within the NH MS4 regulated area to educate them on both the new and updated requirements within the EPA 2021 Multi-Sector General Permit, and the 2017 NH MS4 General Permit.

Targeted Audience:

Industrial facilities regulated under the Multi-Sector General Permit located within the regulated NH MS4 area.

Responsible Department/Parties:

Not applicable, there are no industrial facilities within North Hampton's MS4 area and none were listed/document in the NPDES Multi-Sector General Permit.

Measurable Goal(s):

Operators and managers of industrial facilities are made aware of the updates and changes made to the EPA 2021 Multi-Sector General Permit including the requirements to additional monitoring, updated benchmark thresholds and monitoring schedules, monitoring of impaired

waters, and specific additional monitoring depending on the industry sector. In addition, noted the overlapping requirements with the NH MS4 General Permit.

Following are the number of outreach letters **and/or** fact sheets that were distributed to municipal or local organizations ***during this reporting period***:

Year 5 = 0 of letters

Year 5 = 0 of fact sheets

Goal was achieved.

Message Date: Not applicable.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

Pet waste and septic system maintenance brochures are available at the Town Clerks and other Town offices for residents to take when they visit. The Town of North Hampton is planning to promote all MS4 topics at a town wide event hosted through the Recreation Department in the upcoming reporting period.

MCM 2: Public Participation

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements as described in the North Hampton SWMP.
- Kept records relating to the permit available for 5 years and made available to the public.

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) ***during this reporting period:***

Description:

The Stormwater Management Program (SWMP) is publicly available for review at the North Hampton Town Clerks Office and Town Library. Documents and records relating to the permit are retained and available for 5 years to the public at these town locations as well as available online at the Town's MS4 website: <https://www.northhampton-nh.gov/public-works-department/pages/storm-water-management-plans>.

Was this opportunity different than what was proposed in your NOI?

No

Yes. North Hampton made the following changes:

Measurable Goal(s):

Input was received and records are maintained. **Goal was achieved.**

Describe any other public involvement or participation opportunities conducted ***during this reporting period:***

Public involvement or participation opportunities are ancillary to daily operations.

A specific pet waste program was initiated and carried out at the Town Clerks Office.

Outreach, engagement, and public participation was not solicited at this year's Old Home's Day sponsored by the Town Recreation Department due to the audience catering more toward young children and families. The town felt it wouldn't get much engagement. This is an event that the town has considered tabling in the past and in the future. The town did not have Touch-A-Truck event this year either but this is another event that the Town intends to utilize for public participation.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

Not Applicable.

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

- This SSO section is NOT applicable because we DO NOT have sanitary sewer.
- This SSO section is NOT applicable because we DID NOT find any new SSOs.
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented or was addressed and can be found in submission **and/or** at the following website [##website link](#).

Below, report on the number of SSOs identified in the MS4 system and removed:

Number of SSOs identified **during this reporting period**: 0

Number of SSOs removed **during this reporting period**: 0

MS4 System Mapping

- Updated system map due in Year 2 as necessary:

Provide additional status information regarding your map:

Map of storm sewer system and associated outfalls was completed in Year 2 and there have been no updates since that time.

Screening of Outfalls/Interconnections

Dry Weather Screening

- No outfalls were inspected for dry weather screening **during this report period**.
- Outfalls were inspected for dry weather screening **during this report period** and data can be found in submission **and/or** at the following website [##website link](#).

Below, report on the number of outfalls screened in the MS4 system:

Number of outfalls/interconnections screened **during this reporting period**: 0

Percent of total known outfalls/interconnections screened **to date (Year 1 – Year 5)**: 100%

*The dry weather screening was completed in Year 3 (June 22nd and 28th, 2021). Results from the screen are included as an attachment to this report.

The inventory and priority ranking of outfalls/interconnections was not updated in Year 5 but the Outfall Catchment System Vulnerability Factors (SVF) Inventory spreadsheet was created and to IDDE Program Plan. The IDDE Program Plan was revised as a result. The inventory and

ranking of outfalls/interconnections spreadsheet and SVF spreadsheet can be found in the town's updated IDDE posted to the Town website and available at the IDDE Plan link above.

Wet Weather Screening

No outfalls/interconnections were inspected for wet weather screening ***during this report period.***

Outfalls have been identified and prioritized in the System Vulnerability Factors (SVF) Inventory spreadsheet available in the updated IDDE Plan and linked above. Sampling is planned for subsequent years.

Wet weather outfall/interconnection screening data can be found in submission **and/or** at the following website ~~##website link~~.

Number of outfalls screened ***during this reporting period:*** 0

Percent of total known outfalls/interconnections screened ***to date (Year 1 – Year 5):*** 0%

Catchment Investigations

No catchment investigations were conducted ***during this report period.*** Catchment investigations include investigations associated with Problem, High Priority, and Low Priority Outfalls/Interconnections within the MS4 regulated area.

Catchment investigations were conducted and data can be found in submission **and/or** at the following website ~~##website link~~.

Number of catchment investigations ***during this reporting period:*** 0. Catchment Investigations were conducted as outlined in Part 2.3.4.8. of the permit and include investigations associated with Problem, High Priority, and Low Priority Outfalls and Interconnections within the MS4 regulated area.

Percentage of total catchments investigated ***to date (Year 1 - Year 5):*** 100%

All three outfalls/catchments in North Hampton's MS4 area are ranked as Low Priority.

IDDE Progress

No illicit discharges were found ***during this reporting period.***

Illicit discharges were found but not removed ***during this reporting period.*** ~~##Schedule for illicit discharge removal or explanation.~~

Illicit discharges were removed ***during this reporting period*** and the illicit discharges removal report can be found in submission **and/or** at the following website ~~##website link~~.

Number of illicit discharges identified ***during this reporting period:*** 0

Number of illicit discharges removed ***during this reporting period:*** 0

Estimated gallons of flow removed ***during this reporting period:*** 0 gallons/day

Total number of illicit discharges identified ***since the effective date of the permit (July 1, 2018 – June 30, 2023):*** 0

Total number of illicit discharges removed ***since the effective date of the permit (July 1, 2018 – June 30, 2023):*** 0

Employee Training

- Provided training to employees involved in IDDE program ***during the reporting period:***

North Hampton public works staff were trained using IDDE training videos and a written IDDE SOP created by UNH, the City of Dover, and NHDES. Video topics included collecting data and water samples in the field, analyzing for pertinent parameters as identified in the permit, how to identify an illicit discharge, and general IDDE sampling protocols. Training logs are included in Appendix F of the IDDE Program Plan.

In addition, North Hampton routinely provides IDDE materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE Program Plan.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

Not Applicable. The Town of North Hampton plans to complete annual training in the spring of each reporting year utilizing in house training/discussions, videos, and seminars when available.

MCM 4: Construction Site Stormwater Runoff Control

The following tasks are in progress in accordance with the permit:

Number of site plan reviews completed ***during this reporting period:*** 2

Number of inspections completed ***during this reporting period:*** 3

Number of enforcement actions taken ***during this reporting period:*** 0

North Hampton works closely with developers to address environmental concerns for the least environmental impact.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Not Applicable.

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

Ordinance or Regulatory Mechanism

North Hampton has a regulatory mechanism(s) consistent with permit requirements 2.3.6.a.ii.

Date regulatory mechanism was adopted: Prior to July 1st 2021. The regulatory document can be found at: https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/uploads/site_plan_regs_04202021.pdf under section F. Post Construction Stormwater Management Standards.

On May 18, 2017, the North Hampton Planning Board voted to incorporate the model stormwater regulations into the town's Site Plan Review Regulations. The adopted regulations are very similar to the SWA 2012 model stormwater standards.

The regulations were updated and amended September 17, 2019.

North Hampton has not drafted nor adopted a Post-Construction Ordinance. ~~##Update of ordinance progress.~~

Table 33. Comparison of Selected SWA Draft 2017 Post-Construction Stormwater Standards to Current Town Stormwater Regulations

	Has Town Adopted Stormwater Regulations?	Minimum Thresholds for Applicability	Exemption Threshold	Treatment of Runoff from Impervious Surfaces (IC)	LID Design Requirements	Post-Development Peak Runoff Standards
Draft 2017 Post-Construction Stormwater Standards (SWA)	N/A	Any development or redevelopment subject to Site Plan Review that disturbs more than 5,000 square feet or disturbs more than 2,500 square feet within 100 feet of a surface water body.	For disturbances < 5,000 square feet, Town may grant an exemption if total site impervious cover created does not exceed 1,000 square feet (Note: must meet performance standards)	Runoff from IC shall be treated to achieve ≥ 80% TSS removal and ≥ 60% removal of both total nitrogen and total phosphorus	LID design strategies must be used to the maximum extent practicable to reduce runoff volumes, protect water quality, and maintain predevelopment site hydrology.	Control post-development peak runoff rate to not exceed pre-development runoff. Drainage calculations shall compare pre- and post-development stormwater runoff rates and volumes for the 1-inch rainstorm and 2-year, 10-year, 25-year, and 50-year 24-hour storm events.
North Hampton	YES Updated Site Plan Review Regulations based on 2012 SWA Model (adopted May 2017)	Standards apply to all projects requiring Planning Board review and approval under Section V.A. of Site Plan Review Regulations	Planning Board may grant a waiver for projects that: disturb < 15,000 square feet; create < 5,000 square feet of new impervious surface, and do not disturb land within 100 feet of a surface water or wetland. (Note: must meet performance standards)	Runoff from IC shall be treated to achieve ≥ 80% TSS removal and ≥ 50% removal of both total nitrogen and total phosphorus	LID design must be used to the maximum extent practicable to reduce stormwater runoff volume for new development and redevelopment. Applicants must document why LID strategies are not appropriate if not used to manage stormwater.	Measures shall be taken to control the post-development peak rate runoff so that it does not exceed pre-development runoff for the 2-year, 10-year and 25-year, 24-hour storm events.

The table above is an excerpt from the Winnicut River Watershed Restoration and Management Plan (2017).

As-built Drawings

Number of as-built drawings received **during this reporting period:** 0

Street Design and Parking Lots Report

During Year 4, North Hampton developed a report assessing current street design and parking lot regulations to determine the feasibility of making low impact design options allowable when appropriate site conditions exist and made it available as part of the SWMP.

During this reporting period, North Hampton developed a report assessing street design and parking lot regulations to determine the feasibility of making low impact design options allowable when appropriate site conditions exist and made it available as part of the SWMP.

and

No updates were recommended to the Assessment Report **during this reporting period**.

Updates were recommended to the Assessment Report **during this reporting period**. Following are the recommended updates: North Hampton to note recommended or planned changes here. The anticipated date or date of completion for updates is ~~##date outlined in the report~~.

No changes were made or planned to be made to local regulations and/or guidelines **during this reporting period**.

Updates were recommended and/or planned to be made to local regulations and/or guidelines **during this reporting period**. Following are the recommended updates: North Hampton to note recommended or planned changes here. The anticipated date or date of completion for updates is ~~##date outlined in the report~~.

No updates were made **during this reporting period** because all required local regulation changes have been made to make low impact designs allowable as outlined in the Local Regulations Assessment Report.

Green Infrastructure Reports

During Year 4, North Hampton developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist and made it available as part of the SWMP.

During this reporting period, North Hampton developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist and is an attachment to this report.

and

No progress was made **during this reporting period** towards making green infrastructure practices allowable as outlined in the Local Regulations Assessment Report.

- Progress was made ***during this reporting period*** as outlined in the Local Regulations Assessment Report. ##MUNICIPALITY has made progress on Green Roofs, Infiltration Practices, **and/or** Water Harvesting. Progress includes updating the ordinance, regulation, code.
- Updates were made to the Local Regulations Assessment Report ***during this reporting period*** to reflect ##revision.
- No updates were made ***during this reporting period*** because all required local regulation changes have been made to make green infrastructure practices allowable as outlined in the Local Regulations Assessment Report.

Retrofit Properties Inventory

- Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover in **Year 4**. The following was completed ***during the reporting period***:
- Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover ***during this reporting period*** because North Hampton did not complete this requirement during Year 4. The following was also completed ***during the reporting period***:

And

- North Hampton has identified the remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and of which are not included in the list below:

List of MS4 Properties: 7 out of the top 8 properties identified in the hot spot mapping are permittee-owned properties within the MS4 regulated area.

Below are the physical addresses for these properties. Properties marked with an asterisk (*) were identified as being suitable candidates for BMP construction and retrofits, either due to their site factor feasibility/suitability and/or due to recent redevelopment and improvements completed at the property but the feasibility of carrying out the work is still being assessed by the Town.

1. North Hampton Recycling Center*; 14 Cherry Road
2. North Hampton Public Library*; 239 Atlantic Avenue
3. North Hampton Town Hall*; 237A Atlantic Avenue
4. Town Property*; 233 Atlantic Avenue
5. Town Property; 231 Atlantic Avenue

6. Center Cemetery*; 196 Post Road
7. North Hampton Highway Department; 10 Airport Road

List of Non-MS4 Properties: 1 out of the top 8 properties identified in the hot spot mapping are permittee-owned properties outside the MS4 regulated area.

1. Dearborn Park; Rt. 111/Exeter Road

North Hampton has modified or retrofitted the following MS4 **and/or** Non-MS4 properties with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.e as part of the permit in Year 4 **or** Year 5. Following is a list of the properties that were modified or retrofitted **during this reporting period**:

List of MS4 Properties: 2 permittee-owned properties within the MS4 regulated area.

- Significant redevelopment work has occurred at 233 Atlantic Avenue in North Hampton and 239 Atlantic Avenue (North Hampton Public Library) that implemented new stormwater management designs. The Safety complex installed a new Clean Water Septic System and self-contained underground stormwater catchment system.

List of Non-MS4 Properties: 0 of permittee-owned properties outside the MS4 regulated area.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

The Street Design and Green Infrastructure Regulatory Assessment Report and Inventory and Priority Ranking of Permittee-Owned Properties under MCM #5 were not completed in Year 4 but have been completed in Year 5. These reports are included as an attachment to this report.

MCM 6: Good Housekeeping

Catch Basin Cleaning

- Stored and disposed of catch basin cleanings so they did not discharge to receiving waters.
- Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:
 - A schedule for catch basin cleaning has been established with the goal of ensuring that a catch basin should not be more than 50% full.

Number of catch basins inspected ***during this reporting period:*** 90

Number of catch basins cleaned ***during this reporting period:*** 16

Total volume **or** mass of material removed from **all** catch basins ***during this reporting period:*** 4 CY

Total number of catch basins within the MS4 system: 70

Street Sweeping

- Stored and disposed of street sweepings so they did not discharge to receiving waters.
- All curbed roadways were swept at least once within the reporting period.
 - Number of (lane) miles swept ***during this reporting period:*** 62
 - Volume of swept material ***during this reporting period:*** 12 CY

Stormwater Pollution Prevention Plan (SWPPP)

- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities, that are not currently covered under another NPDES Permit.

Number of site inspections completed for ***during this reporting period:*** 2

Number of corrective actions taken ***during this reporting period:*** 0

Describe any corrective actions taken at a facility with a SWPPP:

No corrective actions necessary.

Operations and Maintenance (O & M) Programs

- O&M programs for all permittee owned facilities have been completed and/or updated as noted below:
 - Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs.

- Updated inventory of all permittee owned facilities as necessary.

All permittee owned facilities, including an inventory, are included in our SWMP. There were no changes to the report during Year 5.

- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants as outlined in the SWMP.
- Inspected all permittee owned treatment structures (excluding catch basins) as outlined in the SWMP.
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt as outlined in the SWMP.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

Not applicable.

Appendix F and H: Water Quality Limited Waters & TMDLs

Bacteria/Pathogens Impairment (Appendix H) AND TMDL (Appendix F)

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate ***during this reporting period***.
- Permittee or its agent(s) disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time ***during this reporting period***.
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria ***during this reporting period***.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

Not Applicable.

Chloride Impairment (Appendix H)

- Permittee **does not** have a chloride impairment.
- Permittee **has** a chloride impairment.
 - Fully implemented Salt Reduction Plan ***during this reporting period*** and can be found in submission **and/or** at the following website **##website link**.

The Municipal Green SnowPro Certification Program bill was passed during the 2021 legislation session. NHDES developed rules and regulations ***during this reporting period***. Final approval of the rules and regulations is anticipated in 2023/2024.

- Reported amount of salt applied to all municipally-owned and maintained surfaces by completing the New Hampshire DES Annual Salt Usage reporting form and submitting it to NHDES, and can be found in submission **and/or** at the following website **##website link**. The UNH Technology Transfer Center online tool is non-functional and has been for several years.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

North Hampton does not have a chloride impairment. This section is **not applicable** to the town.

Even though the Town of North Hampton does not have a known chloride impairment, the town has developed a Winter Maintenance Plan and has implemented procedures outlined in the document. The plan is posted online to the town's MS4 website and is available at the following link:
https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/winter-road-maintenance-plan-northhampton_updated_august_2023.pdf

Nitrogen Impairment (Appendix H)

- Permittee **does not** have a nitrogen impairment.
- Permittee **has** a nitrogen impairment.
 - Distributed an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers ***during this reporting period.***
 - Distributed an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate ***during this reporting period.***
 - Distributed an annual message encouraging the proper disposal of leaf litter ***during this reporting period.***
 - Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of two times per year (spring and fall) ***during this reporting period.***
 - Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of one time per year (spring) and implemented a fall leaf litter collection program in lieu of post-drop street sweeping ***during this reporting period.***

Nitrogen Source Identification Report- Update

Structural BMPs

- The Nitrogen Source Identification Report can be found at the following website ##website link: https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/nitrogen-source-identification-reportpotential-structuralbmps-report-september2023_002.pdf.
The updates to the Nitrogen Source Identification Report can be found in *Section 2: Potential Structural BMPs Report (Year 5)* and include the following:
 - 1.) Completed the evaluation of all permittee-owned properties identified as presenting retrofit opportunity or areas for structural BMP installation under permit part 2.3.6.d as identified in the Nitrogen Source Identification Report update that are within the drainage area of the impaired water or its tributaries. The report includes the next

planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) or planned project; Estimated cost of redevelopment or retrofit BMPs, and; Engineering and regulatory feasibility of redevelopment or retrofit BMPs.

- 2.) Completed a listing of planned structural BMPs and a plan and schedule for implementation.
- 3.) Method of tracking and accounting for nitrogen, and metrics associated with individual BMPs.

Structural BMPs listed in Attachment 3 to Appendix F already existing or installed in the regulated area by North Hampton or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated nitrogen removed in mass per year by the BMP were documented in *Section 2: Potential Structural BMPs Report (Year 5)* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is ##lbs/year.

No BMPs were installed ***during this reporting period***. The implementation schedule is outlined in *Section 2: Potential Structural BMPs Report (Year 5)* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is 0 lbs/year.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

The Nitrogen Source Identification Report was developed during this reporting period. North Hampton has previously been under the impression that the town was exempt/relieved from complying with Part 2.2.2.a.i and Appendix H Part I requirements. However, during a Stormwater Coalition Meeting this year, representatives presented a list of permittees who have total nitrogen impairments or who drain to total nitrogen impaired waters supplied by EPA in the NH MS4 permit and North Hampton included. Notably, the Winnicut River is a tributary to an impaired waterbody, The Great Bay, however the segments of the Winnicut River within North Hampton are not impaired for nitrogen.

Phosphorus Impairment (Appendix H)

Permittee **does not** have a phosphorus impairment.

Permittee **has** a phosphorus impairment.
 Distributed an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers ***during this reporting period***.

- Distributed an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate ***during this reporting period.***
- Distributed an annual message encouraging the proper disposal of leaf litter ***during this reporting period.***
- Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of two times per year (spring and fall) ***during this reporting period.***
- Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of one time per year (spring) and implemented a fall leaf litter collection program in lieu of post-drop street sweeping ***during this reporting period.***

Phosphorus Source Identification Report- Update

Structural BMPs

- The Phosphorus Source Identification Report was updated during this reporting period and can be found in submission **and/or** at the following website ~~##website link~~. The updates to the Phosphorus Source Identification Report can be found in *Section 2: Potential Structural BMPs Report (Year 5)* and include the following:
 - 1.) Completed the evaluation of all permittee-owned properties identified as presenting retrofit opportunity or areas for structural BMP installation under permit part 2.3.6.d as identified in the Phosphorus Source Identification Report update that are within the drainage area of the impaired water or its tributaries. The report includes the next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) or planned project; Estimated cost of redevelopment or retrofit BMPs, and; Engineering and regulatory feasibility of redevelopment or retrofit BMPs.
 - 2.) Completed a listing of planned structural BMPs and a plan and schedule for implementation.
 - 3.) Method of tracking and accounting for phosphorus, and metrics associated with individual BMPs.
- Structural BMPs listed in Attachment 3 to Appendix F already existing or installed in the regulated area by North Hampton or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated phosphorus removed in mass per year by the BMP were documented in *Section 2: Potential Structural BMPs Report (Year 5)* of the Phosphorus Source Identification Report. The total estimated phosphorus removed from the installed BMP(s) is ~~##lbs/year~~.

No BMPs were installed ***during this reporting period***. The implementation schedule is outlined in *Section 2: Potential Structural BMPs Report (Year 5)* of the Phosphorus Source Identification Report. The total estimated phosphorus removed from the installed BMP(s) is 0 lbs/year.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

North Hampton does not have a phosphorus impairment. This section is **not applicable** to the town.

Solids, Oil and Grease (Hydrocarbons), or Metals Impairment(s) (Appendix H)

Permittee **does not** have a solids, oil and grease, or metals impairment(s).

Permittee **has** a solids, oil and grease, or metals impairment(s).

Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads ***during this reporting period***. North Hampton street sweeping schedule can be found in submission **and/or** at **##website**.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

North Hampton does not have a phosphorus impairment. This section is **not applicable** to the town.

Chloride TMDL (Appendix F)

Permittee **does not** have a chloride TMDL.

Permittee **has** a chloride TMDL.

Fully implemented Chloride Reduction Plan ***during this reporting period*** and can be found in submission **and/or** at the following website **##website link**.

The Municipal Green SnowPro Certification Program bill was passed during the 2021 legislation session. NHDES developed rules and regulations ***during this reporting period***. Final approval of the rules and regulations is anticipated in 2023/2024.

Reported amount of salt applied to all municipally-owned and maintained surfaces by completing the New Hampshire DES Annual Salt Usage reporting form, submitting it to NHDES, and can be found in submission **and/or** at the following website **##website link**. The UNH Technology Transfer Center online tool is non-functional and has been for several years.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

North Hampton does not have a chloride TMDL. This section is **not applicable** to the town.

Even though the Town of North Hampton does not have a known chloride impairment, the town has developed a Winter Maintenance Plan and has implemented procedures outlined in the document. The plan is posted online to the town's MS4 website and is available at the following link: https://www.northhampton-nh.gov/sites/g/files/vyhlif996/f/pages/winter-road-maintenance-plan-northhampton_updated_august_2023.pdf

Lake and Pond Phosphorus TMDL (Appendix F)

- Permittee **does not** have a lake and pond phosphorus TMDL.
- Permittee **has** a lake and pond phosphorus TMDL.
 - North Hampton completed a written Lake Phosphorus Control Plan **during the reporting period**. The completed plan includes items 1-8 in Appendix F, Table F-3 and can be found in submission **and/or** at the following website ~~##website link~~. The plan is available to the public at ~~##website and/or facility and physical location~~.
 - During Years 1-4**, North Hampton completed the following items 1-4 of the Lake Phosphorus Control Plan and as outlined in Appendix F, Table F-3: 1.) Legal analysis, 2.) Funding source assessment, 3.) Define LPCP scope (LPCP area), and, 4.) Calculated baseline phosphorus, allowable phosphorus load and phosphorus reduction requirement. The documents can be found in submission **and/or** at the following website ~~##website link~~.

North Hampton is utilizing the resources developed by the New Hampshire Stormwater Coalition. Resources have been developed but the written Lake Phosphorus Control Plan template was not available **during this reporting period**. The New Hampshire Stormwater Coalition is in the process of finalizing the written Lake Phosphorus Control Plan template during the summer of 2023 and is offering a workshop on August 21, 2023, for permittees to obtain information on how to fill out the template and associated spreadsheets. North Hampton will complete a written Lake Phosphorus Control Plan during Year 6 and provide an update on the progress in the Year 6 Annual Report. North Hampton's plan will be available to the public once it is completed at following website ~~##website link~~ **and/or** facility and physical location.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

North Hampton does not have a lake and pond phosphorus TMDL. This section is **not applicable** to the town.

Additional Required Information

Monitoring or Study Results

Results from all stormwater or receiving water quality monitoring or studies conducted ***during the reporting period*** and ***not otherwise mentioned above***, where the data is being used to inform permit compliance or permit effectiveness is:

- Not applicable.
- The results from additional reports or studies are in submission **and/or** at the following website links##website link.
 - Winnicut River Watershed Restoration and Management Plan (NH Rivers Council, 2017) - <https://nhrivers.org/wp-content/uploads/2019/10/WinnicutRiverWRMP.pdf>
 - The report includes potential locations for redevelopment and BMP implementation!
 - Evaluation of impervious cover within the watershed, water quality data (sampling & analysis), water quality goals, areas of priority land conservation, regulatory tools, institutional practices, etc.
 - Winnicut-Coastal Subwatershed, Piscataqua Region Environmental Planning Assessment (PREP, 2015) - https://prepestuaries.org/02/wp-content/uploads/2019/06/PREPA_subwatersheds_Winnicut.pdf
 - Town based priority action recommendations:
 1. Adopt buffers on all waterbodies, including wetlands
 2. Increase setback for septic and primary structures to 100'
 3. Adopt fertilizer application setbacks for all water bodies

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described above.

Not applicable.

Description of Any Changes in Identified BMPs or Measurable Goals

North Hampton has implemented activities in accordance with the permit and outlined in the SWMP. All BMPs and measurable goals outlined in the SWMP are appropriate.

Activities Planned for Next Reporting Period

North Hampton will continue to implement activities in accordance with the permit and SWMP.