

Certification

I hereby certify that the information provided in this report is true and correct to the best of my knowledge and belief. I understand that providing false information is a violation of the law and may result in civil and criminal penalties.

**New Hampshire Small MS4 General Permit
Annual Report**

University of New Hampshire

Permit Year 1

EPA NPDES Permit Number NHR041000

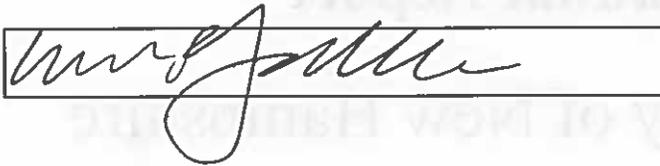
Certification

"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

William P Janelle

Signature



Date

9/25/19

Primary MS4 Program Manager Contact Information:

Director of Energy and Utilities
Matt O'Keefe
UNH Facilities
603-862-1276
matt.okeefe@unh.edu

Small MS4 Authorization

The following annual report is intended to document on the activities undertaken over the reporting period from May 1, 2018 – June 30, 2019 in accordance with 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>

Compliance activities have been identified and described in the University of New Hampshire's Stormwater Management Plan (SWMP) and Illicit Discharge Detection and Elimination Plan (IDDE). Those document can be found at the following website and will be referred to throughout this report:

SWMP: <https://www.unh.edu/facilities/storm-water-management>

IDDE: <https://www.unh.edu/facilities/storm-water-management>

MCM1 - Public Education and Outreach

Year 1 Activities

BMP: Grass and Fertilizer

Document Name and/or Web Address:

Green Grass & Clear Water Brochure: https://www4.des.state.nh.us/nh-ms4/?page_id=54.

Description:

Distribution and promotion of four- fold flyer produced by UNH Cooperative Extension and NH Sea Grant outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

Targeted Audience:

Residential &/or Business and Institutions

Measurable Goal(s):

Lawn care enthusiasts' residents 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 materials distribution methods and numbers and change in visits to UNH Cooperative Extension or University stormwater webpages.

Assessment of goals will be discussed in greater detail in year 2, see https://www4.des.state.nh.us/nh-ms4/?page_id=54 "Minimum Control Measure 1: Public Outreach and Education" for additional information

Message Date:

Delivered UNH Stormwater Pamphlet to new faculty and staff at new employee orientations throughout the year and posted at UNH Library and Sustainability Institute.

BMP: Petwaste Disposal

Document Name and/or Web Address:

"Every Drop" post cards or flyer https://www4.des.state.nh.us/nh-ms4/?page_id=54

Description:

Distribution and promotion of "Every Drop" post cards or flyer with proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. May include 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.

Targeted Audience:

Residents - Pet Owners

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.

Assessment of goals will be discussed in greater detail in year 2, see https://www4.des.state.nh.us/nh-ms4/?page_id=54 "Minimum Control Measure 1: Public Outreach and Education" for additional information

Message Date:

Delivered UNH Stormwater Pamphlet to new faculty and staff at new employee orientations throughout the year and posted at UNH Library and Sustainability Institute.

BMP: Disposal of Leaf and Grass Clippings

Document Name and/or Web Address:

https://www4.des.state.nh.us/nh-ms4/?page_id=54

Description:

Distribute and promote informational flyer, pledge cards, or door hangers, with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste and laws against dumping yard waste near or in waterbodies.

Targeted Audience:

Residential &/or Business and Institutions

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.

Assessment of goals will be discussed in greater detail in year 2, see https://www4.des.state.nh.us/nh-ms4/?page_id=54 "Minimum Control Measure 1: Public Outreach and Education" for additional information

Message Date:

Delivered UNH Stormwater Pamphlet to new faculty and staff at new employee orientations throughout the year and posted at UNH Library and Sustainability Institute.

BMP: Septic System Maintenance

Not Applicable

MCM2 - Public Involvement and Participation

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 2.

MCM3 – Illicit Discharge Detection and Elimination

BMP: IDDE Legal Authority

The University of New Hampshire will use the regulatory mechanism authorized by its Board of Trustees to provide the University and its Planning, Design, and Construction Guidelines with adequate legal authority to:

- Prohibit illicit discharges
- Investigate suspected illicit discharges
- Eliminate illicit discharges, including discharges from properties not owned by or controlled by the MS4 that discharge into the MS4 system
- Implement appropriate enforcement procedures and actions.

Chapter 1 (General Principles) of the UNH Planning, Design, and Construction guidelines (<https://www.unh.edu/facilities/chapter-1-general-principles>) will meet the requirements of the 2017 MS4 Permit.

BMP: Sanitary Sewer Overflow (SSO) Inventory

UNH has no known SSO's.

BMP: Map of Storm Sewer System

Map of storm sewer system and associated outfalls is in progress in accordance with the accepted NOI.

BMP: IDDE Program

A Written IDDE plan has been developed and is available on our website.

Initial outfall identification, characterization and prioritization has been completed and included in the IDDE plan. Written investigation deliverables will progress in accordance with the accepted NOI and is scheduled to be complete by April 1, 2020.

Once plan is complete, UNH plans to identify and collect:

Number and percent of total outfall catchments served by the MS4 evaluated using the catchment investigation procedure:

Number of dry weather outfall investigations/screenings:

Number of wet weather outfall inspections/sampling events:

Number of illicit discharges removed:

Estimated gallons of flow removed:

BMP: Employee Training

As a routine IDDE, materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable departmental employees in accordance with IDDE plan.

MCM4 – Construction Site Stormwater Runoff Control

A Written site inspection and enforcement program for erosion and sediment control measures was created and is included in our SWMP.

Number of site plan reviews completed: 5

Number of inspections: 24

Number of enforcement actions: 0

MCM5 – Post Construction Stormwater Management in New Development and Redevelopment

BMP: Post-Construction Ordinance (due in year 2)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 2.

BMP: Street Design and Parking Lot Guidance Report (due in year 4)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 4.

BMP: Green Infrastructure Report (due in year 4)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 4.

BMP: List of University Retrofit Opportunities (due in year 4)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 4.

MCM6 – Good Housekeeping and Pollution Prevention for Permittee Owned Operations

BMP: Parks and Open Spaces Operations and Maintenance Procedures (due year 2)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 2.

BMP: Buildings and Facilities Operations and Maintenance Procedures (due year 2)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 2.

BMP: Vehicles and Equipment Operations and Maintenance Procedures (due year 2)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 2.

BMP: Catch Basin Cleaning Program

A schedule for catch basin cleaning has been established with the goal of ensuring catch basin should not be more than 50% full. This is detailed in the SWMP.

Number of catchbasins within MS4 regulated area: 966

Number catchbasins inspected in accordance with the SWMP: 483

Number of catchbasins cleaned: 210 contracted, 15 in house

Volume or mass of material removed: 22 cubic yards

BMP: Street sweeping program

A street sweeping program has been established such that all streets with curbing and/or catchbasins and permittee-owned parking lots are swept in accordance with permit conditions.

Number of (lane) miles swept:

Road Sweeping: 1,003,926 ft²

Parking Sweeping: 2,194,093 ft²

Volume or mass of swept material: 30 Cubic Yards

BMP: Winter Road Maintenance Program

A winter road maintenance program has been established with a goal of reducing salt usage. An improvement made this year includes the University's concerted efforts to only use sand/salt in unpaved agricultural areas. UNH employs 2 Master Certified Salt Applicators, with 10 additional staff graduated from the Green Snow program and 1 Master Roads Scholar. UNH has 4 poly salt spreaders to ensure adherence to our existing salt reduction program.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

University of New Hampshire continues to collect information with a goal of inventorying and formally inspecting all owned BMPs. Any BMPs that are safety or flooding hazards are dealt with as needed.

BMP: SWPPP(due year 2)

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 2.

TMDL's and Water Quality Limited Waters

Bacteria/Pathogens

Outfalls to these receiving waters been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's been implemented in accordance with the SWMP.

Phosphorus

Outfalls to these receiving waters been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's been implemented in accordance with the SWMP.

University of New Hampshire through its participation in the Seacoast Stormwater Coalition and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP), will satisfy the tracking and accounting requirement of the owned structural BMP's listed in Attachment 1 to Appendix H.

Nitrogen

Outfalls to these receiving waters been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's been implemented in accordance with the SWMP.

University of New Hampshire through its participation in the Seacoast Stormwater Coalition and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP), will satisfy the tracking and accounting requirement of the owned structural BMP's listed in Attachment 1 to Appendix H.

Chloride

Outfalls to these receiving waters been ranked as high priority for the IDDE implementation in the initial outfall ranking.

University of New Hampshire through its participation in the Seacoast Stormwater Coalition and continued involvement with the NHDES led Green Snow Pro Program regarding impacts of salt use, methods to reduce salt use on private property, modifications to driving behavior in winter weather as listed in Attachment 1 to Appendix H.

Activities for the Next Reporting Cycle

University of New Hampshire will continue to implement activities in accordance with the approved Notice of Intent.

