

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

University of New Hampshire

Permit Year 2

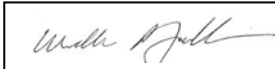
EPA NPDES Permit Number NHR041000

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

09/16/20

Date

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Small MS4 Authorization

The following annual report is intended to document on the activities undertaken over the reporting period from July 1, 2019 – June 30, 2020 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's Stormwater Management Plan (SWMP) and Illicit Discharge Detection and Elimination Plan (IDDE). Those documents 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/sites/default/files/departments/facilities/idde-unh-2020_update.pdf

MCM1 - Public Education and Outreach

While the University still delivered its outreach materials at events in the Fall and continuously through online access and materials available at our Library, most campus activities and population were dramatically reduced due to Covid-19 conditions starting in mid-March 2020.

Year 2 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 municipal stormwater webpages.

*In Year 1, approximately 75 of flyers were distributed. In Year 2, approximately 100 flyers were distributed. **Goal was achieved.***

Message Date:

Annually at student University Day (9/10/19) and Faculty/Staff Benefits (10/16/19) events and readily available at campus library.

BMP: Pet Waste 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.

In Year 1, approximately 75 of flyers were distributed. In Year 2, approximately 100 flyers were distributed. Goal was achieved.

Message Date:

Annually at student University Day (9/10/19) and Faculty/Staff Benefits (10/16/19) events and readily available at campus library.

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.

In Year 1, approximately 75 of flyers were distributed. In Year 2, approximately 100 flyers were distributed. Goal was achieved.

Message Date:

Annually at student University Day (9/10/19) and Faculty/Staff Benefits (10/16/19) events and readily available at campus library.

BMP: Septic System Maintenance

Not Applicable.

BMP: Developer/Construction Outreach

Not Applicable.

MCM2 - Public Participation

BMP: Public Participation in Stormwater Management Program Development

Description: The Stormwater Management Program was publicly reviewed at monthly Ecosystem Task Force (and associated Watersheds Subcommittee meetings) throughout 2019 and 2020 (<https://www.unh.edu/sustainability/about/task-forces>). The task force is comprised of faculty, staff, and students.

Measurable Goal(s): Presented and Reviewed SWMP and MS4 Year 1 Annual Report. Input was received. **Goal was achieved.**

MCM3 – Illicit Discharge Detection and Elimination

BMP: IDDE Legal Authority

The University has established legal authority as outlined in the IDDE plan.

BMP: Sanitary Sewer Overflow (SSO) Inventory

The University has developed the SSO inventory in accordance with permit conditions and has nothing new to report.

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. This plan has been updated to incorporate written catchment investigation procedures in conjunction with the Seacoast Stormwater Coalition and UNH Stormwater Research Center.

Initial outfall identification, characterization and prioritization has been completed and included in the IDDE plan.

The following tasks are in progress in accordance with the accepted NOI.

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

Number of dry weather outfall investigations/screenings: 0

Number of wet weather outfall inspections/sampling events: 0

Number of illicit discharges removed: 0

Estimated gallons of flow removed: NA

BMP: Employee Training

June 17, 2020; City of Dover and UNH provided Illicit Discharge videos prepared by senior civil and environmental engineering students at the Seacoast Stormwater Coalition meeting. Training logs are included in Appendix F of the IDDE report.

In addition, as a routine IDDE, materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable 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. Note that UNH had reduced staffing during the period between 3/15 and 6/30 due to Covid and may have reduced site inspections typically performed by UNH staff but all active construction sites were still periodically inspected at least monthly.

The following tasks are in progress in accordance with the accepted NOI.

Number of site plan reviews completed: 11

Number of inspections: 29

Number of enforcement actions: 0

MCM5 – Post Construction Stormwater Management in New Development and Redevelopment

BMP: Post-Construction Ordinance (due in year 3)

A Post-Construction Standard has been created, links and references are included in our SWMP.

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 Municipal 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 have been created and are included in our SWMP.

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

Deliverables have been created and are included in our SWMP.

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

Deliverables have been created and are included in our SWMP.

BMP: Catch Basin Cleaning Program

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. Catch basin cleanings were properly stored and disposed so that they did not discharge to receiving waters. This is detailed in the SWMP.

The following tasks are in progress in accordance with the accepted NOI.

Number of catch basins within MS4 regulated area: 966

Number catch basins inspected in accordance with the SWMP: 450

Number of catch basins cleaned: 231

Volume or mass of material removed: 39 cubic yards removed

BMP: Street sweeping program

A street sweeping program has been established such that all streets with curbing and/or catch basins and permittee-owned parking lots are swept in accordance with permit conditions. Street sweepings were properly stored and disposed so that they did not discharge to receiving waters.

The following tasks are in progress in accordance with the accepted NOI.

Number of (lane) miles swept: 1,003,926 ft² – Sweeping of Roads
2,194,093 ft² – Sweeping of Parking Lots

Volume or mass of swept material: 64 cubic yards removed

BMP: Winter Road Maintenance Program

A winter road maintenance program has been established with a goal of reducing salt usage. Salt reduction strategies have been implemented as outlined in our SWMP.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

University of New Hampshire has met its goal of inventorying and formally inspecting all University owned BMPs as outlined in our SWMP. Any BMPs that are safety or flooding hazards are dealt with as needed.

BMP: SWPPP (due year 2)

SWPPPs were developed in year 2, consistent with the NOI and permit requirements, for the following facilities: utility plants, maintenance garages, public works yards, and other waste handling facilities where pollutants are exposed to stormwater as outlined in our SWMP. UNH Environmental Health and Safety maintain oversight in accordance with existing Integrated Contingency Plan with NHDES. Locations include:

- EHS Hazardous Storage (11 Leavitt Lane)

- Combined Heat and Power Plant (2 Library Way)
- Farm Services Machinery (287 Mast Rd)
- Holloway Commons (75 Main St)
- Leavitt Center Transportation Garage (213 Main St)
- Philbrook Hall (29 McDaniel Dr)
- Stillings Hall (20 Ballard St)
- Grounds and Roads (21 Waterworks Rd)
- Water Treatment Plant (75 Waterworks Rd)

Copies are kept, and inspections as outlined in completed SWPPPs will begin in year 3.

TMDL's and Water Quality Limited Waters

Bacteria/Pathogens

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

Nitrogen

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's have 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 University-owned structural BMP's listed in Attachment 1 to Appendix H.

Chloride

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

Tracking of the amount of salt applied to all municipally owned and maintained surfaces, and reporting of salt use has been completed using the UNH T2 online tool, or other.

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

The municipal Green Snow Pro legislation was delayed due to COVID-19, and will be revisited during the 2021 legislative session.

Description of any changes in identified BMPs or measurable goals

University of New Hampshire has implemented activities in accordance with the approved Notice of Intent. All BMPs and measurable goals as outlined in the approved NOI are appropriate.

Activities for the Next Reporting Cycle

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