

New Hampshire Small MS4 General Permit
Annual Report
Town of Durham
Permit Year 1

EPA NPDES Permit Number NHR041000

Certification

The authorization letter is:

- Attached to this document (document name listed below):

- Publicly available at the website:

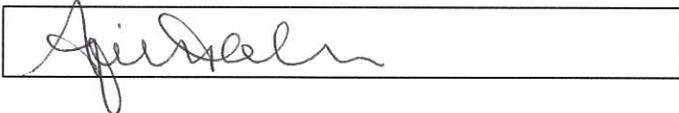
<https://www.ci.durham.nh.us/publicworks/stormwater>

"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

April Talon, P.E. Town Engineer

Signature



Date

9/30/19

Primary MS4 Program Manager Contact Information:

Name: Michael Lynch

Position/Title: Public Works

Director

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Email Address:

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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 Town of Durham'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.ci.durham.nh.us/publicworks/stormwater>

IDDE: <https://www.ci.durham.nh.us/publicworks/stormwater>

MCM1 - Public Education and Outreach

Year 1 Activities

BMP: Grass and Fertilizer

Document Name and/or Web Address:

Green Grass & Clear Water Postcard: <https://seagrant.unh.edu/WQ-and-lawns-outreach>

Description:

Distribution and promotion of postcard 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.

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: June 28, 2019

Also promoted in Town of Durham Friday Updates

<http://www.ci.durham.nh.us/fridayupdate/friday-updates-may-17th-2019>

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: time of license renewal, 2019. Message posted in Durham Community Friday Updates May 17, 2019 found here <http://www.ci.durham.nh.us/fridayupdate/friday-updates-may-17th-2019>

As of 9/18/19, 4 Durham residents signed the PREP pledge here <https://stateofourestuaries.org/everydrop/petpledge/>

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:

Fall Leaf and Brush Collection the first week of November 2019

BMP: Septic System Maintenance

Document Name and/or Web Address:

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

Description:

Distribute and promote brochure or door hangers, directing to website to educate 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

Measurable Goal(s):

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

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:
Fall 2019

MCM2 - Public 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 municipality has established legal authority as outlined in the IDDE plan.

BMP: Sanitary Sewer Overflow (SSO) Inventory

Number of SSO’s identified this year: zero
Number of SSO’s removed this year: zero

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.

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: 1 (Resident was photographed dumping latex paint into a stormwater catch basin on Sauer Terrace that drains to Pettee Brook and Beards Creek. Homeowner was required to pay to pump out the catch basin.

Estimated gallons of flow removed: 10 gallons

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 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.

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

Number of site plan reviews completed: 5

Number of inspections: 5

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 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 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 that a catch basin should not be more than 50% full. 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: 570

Number catch basins inspected in accordance with the SWMP: 190

Number of catch basins cleaned: 190

Volume or mass of material removed: 10CY

BMP: Street sweeping program

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

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

Number of (lane) miles swept: Sweep twice/week, approximately 10 lanes miles per week

Volume or mass of swept material: Hopper capacity is 1 CY, doesn't fill with each trip

BMP: Winter Road Maintenance Program

A winter road maintenance program has been established with a goal of reducing salt usage. An salt reduction strategy implemented this year includes only doing a pre and post storm treatment with salt and not an intermediate treatment in the middle of a storm.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

The Town of Durham continues to collect information with a goal of inventorying and formally inspecting all municipally 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 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.

The Town of Durham through its participation in the Seacoast or the Lower Merrimack Valley Stormwater Coalition(s) and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP), will satisfy the tracking and accounting requirement of the municipally 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.

The Town of Durham through it's 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, modifications to driving behavior in winter weather as listed in Attachment 1 to Appendix H.

Description of any changes in identified BMPs or measurable goals

The Town of Durham 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

The Town of Durham will continue to implement activities in accordance with the approved Notice of Intent.