

Year 6 Annual Report

New Hampshire Small MS4 General Permit

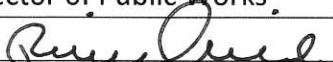
Reporting Period: July 1, 2023 - June 30, 2024

Town of Durham

EPA NPDES Permit Number NHR041006

Certification of Small MS4 Year 6 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: Richard Reine	
Title: Director of Public Works	
Signature: 	Date: 9/30/24

Authorized Representative:

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>

Primary MS4 Program Manager Contact Information:

Name: Richard Reine	Title/Position: Director of Public Works		
Department: Public Works			
Street Address: 100 Stone Quarry Drive			
City: Durham	State: New Hampshire	Zip Code: 03824	
Email: rreine@ci.durham.nh.us	Phone Number: 603-868-5578		

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, 2023, through June 30, 2024**, 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>

Compliance activities have been identified and described in the Town of Durham’s Stormwater Management Program Plan (SWMP) and Illicit Discharge Detection and Elimination (IDDE) Plan. Those documents and other pertinent Year 6 information can be found in submission or at the following websites, and will be referred to throughout this report:

SWMP: Located at https://www.ci.durham.nh.us/publicworks/stormwater
Date SWMP was Last Updated: September 26, 2024
2024 IDDE Program Plan: Located At https://www.ci.durham.nh.us/publicworks/stormwater
Updated System Map: Located at Durham Public Works Office
Updated SSO Inventory: This is not applicable because we did not find any new SSOs.
Updated Inventory and Ranking of Outfalls/Interconnections: See 2024 IDDE Program Plan Located at https://www.ci.durham.nh.us/publicworks/stormwater
Dry Weather Screening Data: See Page 10 of the Attached Year 6 IDDE Catchment Investigations and Located at https://www.ci.durham.nh.us/publicworks/stormwater
Wet Weather Screening Data: See Page 83 of the Attached Year 6 IDDE Catchment Investigations and Located at https://www.ci.durham.nh.us/publicworks/stormwater
Catchment Investigation Data: See Attached Year 6 IDDE Catchment Investigations and Located at https://www.ci.durham.nh.us/publicworks/stormwater
System Vulnerability Factors: See Page 6 of the attached Year 6 IDDE SVF Assessment and the 2024 IDDE Plan Located at https://www.ci.durham.nh.us/publicworks/stormwater
Illicit Discharge Removal Report: This is not applicable because we did not find any illicit discharges in Year 6.
Results from additional stormwater or receiving water quality monitoring reports or studies: N/A

PTAP 2024 Nutrient Reduction Report: Durham is utilizing the Pollutant Tracking and Accounting Project and has completed a recent PTAP inventory update (see attached submission Durham NH Year 6 PTAP Batch Import) but has not received the resultant Nutrient Reduction Report to date. Year 6 Nitrogen Reductions will be submitted with the Year 7 Annual Report.

Salt Reduction Plan: Located at <https://www.ci.durham.nh.us/publicworks/stormwater>

Annual Salt Usage Report: See attached submission Durham NH Salt Use Reporting Form Year 6

Updated Nitrogen Source Identification Report: This is not applicable because we did not update the nitrogen source identification report in year 6.

Updated Phosphorus Source Identification Report: This is not applicable because we do not have a lake and pond phosphorus TMDL.

Street Sweeping Schedule: This is not applicable because we do not have a solids, oil, and grease, or metals impairment.

Chloride Reduction Plan: This is not applicable because we do not have a chloride TMDL.

Lake Phosphorus Control Plan: This is not applicable because we do not have a lake and pond phosphorus TMDL.

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 6 reporting period and can be found on the [New Hampshire Department of Environmental Services \(NHDES\) 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 checked="" 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

Receiving Waters/Impaired Waters/TMDL

Have there been any changes to your lists of **receiving waters or impairments** since the NOI was submitted?

No

There have been no changes to the lists of **receiving waters or impairments** since the NOI submission.

Have there been any changes to your **list of outfalls** since the NOI was submitted?

No

The Town of Durham has not made changes to the **list of outfalls** since the NOI submission.

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

N/A

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.

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 Clear Water” and municipally created flyers, mailers, postcards, videos and social media posts. “Green Grass and Clear 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 Business and Institutions

Responsible Department/Parties:

Public Works Department

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

Year 6 = 4,351 of impressions

Goal was achieved.

Message Date:

Brochures are held year-round at Durham Public Works for anyone to take.

Messaging featured in Spring 2024 Durham Public Works Newsletter issued April 2024

[tod_pw_spring_2024_newsletter.pdf \(durham.nh.us\)](https://www.ci.durham.nh.us/tod_pw_spring_2024_newsletter.pdf)

Also promoted in Durham Friday Updates June 21st, 2024. The weekly Durham Friday Updates email is sent to 4,351 email addresses (subscribers). See

<https://www.ci.durham.nh.us/fridayupdates>

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 “Every Drop” municipally created flyers, mailers, postcards,



brochures, 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.

Targeted Audience:

Residents - Pet Owners

Responsible Department/Parties:

Public Works Department

Measurable Goal(s):

Dog owners and 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 is the number of residents that pledged through the PREP “Every Drop” website **during this reporting period:**

Year 6 = 13

Following is the number of dog poop bags the town replaced in town parks **during this reporting period:**

Year 6: 24,000

Message Date:

“Scoop the Poop” Town Regulation message posted in Durham Community Friday Updates on May 31st, 2024, and June 7th 2024. Updates found here:

<https://www.ci.durham.nh.us/fridayupdates>

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:

Distribution and promotion of municipally created flyers, brochures, pledges, door hangers, and videos with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste, and laws against dumping yard waste near or in waterbodies.

The Town of Durham has implemented a composting effort/program by having a Yard Waste Composting Campaign. This works by allowing the public to drop off compostable materials at

the Town of Durham transfer station and providing educational materials on the water quality benefits of composting.

FALL LEAF AND BRUSH CURBSIDE COLLECTION - Begins Monday, November 6th at 7:00am

The annual curbside Fall leaf and brush collection begins on Monday, November 6th at 7:00am. During this curbside collection program, Durham Public Works crews collect brush (natural material from trees) first followed by the collection of leaves. It is important to note that this program runs independently from the regular curbside solid waste and recycling collection.

Leaves must be placed in paper leaf bags (plastic bags are not recyclable and will not be picked up). Paper bags may be purchased at Aubuchon Hardware and stores such as Lowe's or Home Depot. Loose leaves will not be accepted but may be brought to the Raymond A. LaRoche Sr. Transfer Station & Recycling Center on Durham Point Road during public open hours.

- Brush should be placed in one direction, bundled and tied with string (no wire please).
- Brush and limbs must be no greater than 5 feet in length and 5 inches in diameter. No stumps will be accepted.
- The amount of brush and limbs is limited to **ONE TRUCKLOAD PER HOUSEHOLD**.
- Cutting off small limbs from branches will help maximize each load.
- Remember, backyard composting of your leaves and brush reduces the flow of waste, while at the same time, produces valuable organic matter for the soil. It improves your soil and the plants growing in it.

Message Featured in Friday Updates September 22, September 29, October 13, and November 3, 2023 found here <https://www.ci.durham.nh.us/fridayupdates>

Durham Public Works Fall Newsletter
October 2023

This Issue

- Leaf and Brush Collection P.1
- Fall Project Spotlight P.2
- Miscellaneous Information P.3
- Hazardous Waste P.4

Leaf and Brush Collection Program - Begins November 6th

The Residential Leaf and Brush Collection Program begins on Monday, November 6th. Please place all items curbside no later than 7:00am. During Fall Cleanup, Durham Public Works picks up brush (natural material from trees) first followed by the collection of leaves. The amount of brush and limbs is limited to one truckload per household.

- Leaves should be placed in paper leaf bags. Plastic bags will not be picked up. Loose leaves will not be picked up, but may be brought to the Transfer Station at 100 Durham Point Road.
- Brush should be placed in one direction, bundled and tied with string (no wire please).
- Brush and limbs must be no greater than 5 feet in length and 5 inches in diameter. No stumps will be accepted.**
- Cutting off small limbs from branches will help maximize each load.
- Backyard composting of your leaves and brush reduces the flow of waste, while at the same time produces valuable organic matter for the soil. It improves your soil and the plants growing in it.

Did you know?

The 2022 program resulted in:

- 30.55 tons (~61100 lbs) of brush. That's 53.5 truckloads!
- 33.6 tons (~67200 lbs) of leaves. That's 28 truckloads!
- In total: 64.15 tons (~128,300 lbs) 81.5 truckloads!

The Transfer Station accepts leaves and brush free of charge year round during public open hours.

Solid Waste Information

Durham Public Works would like to remind residents that the Curbside Refuse and Recycling Collection Program will be altered for the following holidays:

- Thanksgiving (November 23, 2023):** No collection on Thursday 11/23/2023, pushed forward to Friday 11/24/2023. There will be no commercial recycling collection on Friday 11/24/2023.
- Christmas (December 25, 2023):** No collection on Monday 12/25/2023 – delayed one day all week; Monday collection on Tuesday, Tuesday on Wednesday, etc. No commercial recycling collection on Friday 12/22/2023.

Transfer Station will be open on **Thursday 12/21/2023** and closed Saturday 12/23/2023.

A Permit must be obtained to enter the Raymond A. LaRoche, Sr. Transfer Station and Recycling Center. Permits are valid during the calendar year and expire on the 31st of December. **2024 Transfer Station Permits will be available to residents and property owners by the end of December** at the Durham Public Works office (100 Stone Quarry Drive) and at the Town Clerk Tax Collectors office.

Durham Public Works Selected to Receive \$723,681 Grant for EV Automated Side Load Solid Waste Collection Trucks

Stormwater Information

Why Does it Matter?

As a Resource...GOOD

- ✓ Mulched leaves or grass clippings on your lawn add valuable nutrients and organic matter. A thin layer of leaves will break down and add much needed organic matter to plant beds.
- ✓ Compost is natural recycling. Compost can be used as a top dressing on your lawn or garden beds reducing or eliminating the need for fertilizer and mulch.

As a source of water pollution...BAD

- ✗ Decaying leaves and grass kill critters in streams, rivers, lakes, ponds, and wetlands.
- ✗ Yard waste on stream banks smothers natural vegetation.
- ✗ Yard waste dumped near waterbodies contributes to stream algae and odors.
- ✗ Yard waste dumped in or near wetlands or surface waters is against the law!

Durham Public Works recently submitted a grant application as part of the Diesel Emission Reduction Act (DERA) funding for the replacement of two refuse collection vehicles with fully electric units. The DERA program funds grants and rebates that protect human health and improve air quality by reducing harmful emissions from diesel engines.

On Tuesday, September 26th, the Town was notified and is excited to learn that Durham has been selected to receive the requested amount of \$723,681, which represents a 45% share of the cost for these EV automated side loader collection vehicles and charging infrastructure. Additional program funds are included within the FY 2024 proposed budget currently under review. Upon approval, Durham Public Works will continue its program planning efforts, including a large public outreach component.

Durham Public Works Fall Newsletter, October 2023

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There are a number of benefits to composting that not everyone is aware of. Some examples are listed below:

- Organic waste in landfills generates methane, a potent greenhouse gas. By composting food scraps and other organics, methane emissions are significantly reduced.
- Compost reduces and in some cases eliminates the need for chemical fertilizers.
- Compost enhances water retention in soils.

As part of its town-wide educational campaign, join IWMAC [on Wednesday, October 25 at 6:30 PM](#) at the Durham Public Library to learn more about composting, and how you can benefit from its advantages. If you've never tried composting, come learn about how easy it is to start!

Paige Wilson, with New Hampshire's Department of Environmental Services (NHDES), will be present to talk about the issue of food waste and share how NHDES, towns and individuals are working to keep food waste out of landfills.

Brought to you by the IWMAC Committee

Questions about recycling or composting? Email us at DurhamRecycles603@gmail.com

Not sure if an item can be recycled? Click [HERE](#).

Want to know more about the Swap Shop? Click [HERE](#).

Message posted in Durham Community Friday Updates on October 6, 2023, October 13, and October 20, 2023

Targeted Audience:

Residential and Business and Institutions

Responsible Department/Parties:

Public Works Department

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 is the weight of compost, brush and leaves collected in Durham *during this reporting period*:

Year 6 = 82,000 lbs. of Brush Collected

Year 6 = 49,400 lbs. of Leaves Collected

Year 6 = 28,000 lbs. of Compost (This figure only organic matter brought in person to the transfer station, even more residents have chosen to compost in their own backyard compost bins)

Following is the number of residents that viewed brochures and flyers *during this reporting period*:

Year 6 = 4,351 of residents

Goal was achieved.

Message Date:

Messaging posted in Durham Community Friday Updates on September 22, 2023, September 29, 2023, October 6, 2023, October 13, 2023, October 20, 2023. November 3, 2023, November 17, 2023, and January 12, 2024 found here <https://www.ci.durham.nh.us/fridayupdates>

BMP: Septic System Maintenance

Outreach Resources:

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

Description:

Distribution and promotion of Get Pumped NH, EPA, and municipally created brochures, letters, videos, and 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 NHDES.

Targeted Audience:

Septic System Owners

Responsible Department/Parties:

Public Works Department

SEPTIC SYSTEM MAINTENANCE IS IMPORTANT – Are you aware if you have one?
 A rule of thumb is that if you are not on Durham's municipal sewer system, you have a septic tank -- and it needs ongoing maintenance. Getting your septic system pumped doesn't just help to keep it functioning properly. It also helps our community stay safe by keeping wastewater out of the Oyster and Lamprey Rivers, as well as the Great Bay Estuary. You can learn more [HERE](#).

SEPTIC SYSTEM MAINTENANCE IS IMPORTANT – You may not be aware that you have one!

SEPTIC MAINTENANCE
 For Durham Residents

When was the last time you performed septic maintenance? Unsure? Ask yourself these questions!

- 1 Do you pay a water or sewer utility bill? If yes, then you likely **DO NOT** have a septic system.
- 2 Do your neighbors have septic systems? If yes, then you most likely have a septic system.

NOTE: You can also submit a Subsurface Systems File and Archive Record Request to NHDES through their online portal, or submit the form by fax: (603) 271-6683, or email: lrmp.archives@des.nh.gov

Septic Failure Leads to...

- Exposure to harmful bacteria in the event that wastewater backs up into your home or overruns your yard.
- Wastewater flowing into nearby water bodies-preventing you from enjoying these spaces for recreation and potentially harming the area's wildlife.

How can you prevent septic failure?

- **ONLY FLUSH TOILET PAPER AND WASTE** - Human waste and toilet paper are the only things that should be flushed down the toilet, anything else, even items claiming to be flushable, can potentially clog your septic system
- **PUMP EVERY 3-5 YEARS!** - This prevents waste from overloading your system! Doing this maintenance step will ensure the longevity of your septic system.
- **DON'T DRIVE ON YOUR SEPTIC SYSTEM** - This can cause damage to the septic system in your yard.
- **SAVE WATER** - Fixing leaks and allowing time between large water usages can help the good bacteria in your system to do its job properly.

Replacing a residential leach field can cost up to \$15k.

Usage of a garbage disposal will fill your septic system faster!

On well water & have a septic system? Test drinking water to ensure no contamination!

Sources:

1. https://www.des.state.nh.us/hh-ms67/page_id=54
2. <https://getpumpednh.com/>
3. <https://strafford.org/docs/rollford-septic-fac-sheet/>

A rule of thumb is that if you are not on Durham's municipal sewer system, you have a septic tank -- and it needs ongoing maintenance. Getting your septic system pumped doesn't just help to keep it functioning properly. It also helps our community stay safe by keeping wastewater out of the Oyster and Lamprey Rivers, as well as the Great Bay Estuary.

Learn more [HERE](#).

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

Year 6 = 4,531 of impressions

The Building/Code Enforcement Office reported that 9 septic systems were reconstructed between July 1, 2023, and June 30, 2024. They also reported that there are some cases where the State approved replacements that the Town did not review. Brochures are available at Building/Code Enforcement Office/Public Works Office.

Goal was achieved.

Message Date:

Septic System Maintenance and [getpumpednh.com](https://www.ci.durham.nh.us/fridayupdates) messaging posted in Durham Community Friday Updates on May 31, 2024 and June 21st, 2024 found here <https://www.ci.durham.nh.us/fridayupdates>

BMP: Construction/Developers Outreach

Outreach Resources:

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

Description:

*The municipality **must** choose one or both of the following statements:*

- Provide the Construction General Permit (CGP) outreach letter and fact sheets to developers, construction contractors, and other municipal or local organizations to educate them on the EPA 2022 Construction General Permit along with information on the selection, installation, and maintenance of construction related best management practices.

- Review the construction checklist with developers and construction contractors prior to the beginning of construction projects (pre-construction) to identify responsible parties, erosion control practices, other best management practices, and requirements for the EPA Construction General Permit as appropriate.

Targeted Audience:

Construction/Developers

Responsible Department/Parties:

Public Works Department

Measurable Goal(s):

Contractors, developers, and municipal or local organizations are made aware of the EPA 2022 Construction General Permit and its associated requirements including that those who wish to be considered a qualified person to conduct inspections must meet EPA training standards. Contractors, developers, and municipal or local organizations are also educated on how to properly select, install, and maintain construction related best management practices.

The Town of Durham held 2 pre-construction meetings, representing 100% of projects that received planning board approval and began construction *during this reporting period*.

121 Technology Drive and 18 Garrison Ave (ATO)

Goal was achieved.

Message Date: September 5, 2023 and September 26, 2023

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

Not Applicable

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 Town of Durham SWMP.
- Kept records relating to the permit 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) was publicly reviewed at Durham Public Works office. Documents and records relating to the permit are retained and available for 5 years to the public at Durham Public Works office and at:
<https://www.ci.durham.nh.us/publicworks/stormwater>

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

- No.
- Yes.

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. Town of Durham provided notification of available documents related to the MS4 permit on Durham Community Friday Updates September 29, 2023, October 27, 2023, and June 28, 2024 found here <https://www.ci.durham.nh.us/fridayupdates>. The Town of Durham has conducted a Household Hazardous Waste Collection Day.

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 DID NOT find any new SSOs.

MS4 System Mapping

- Updated **Phase 1** system map due in Year 2 as necessary:

Provide additional status information regarding your map:

Map of storm sewer system and associated outfalls is continually updated to reflect findings and changes.

- Updated **Phase 2** system map (due in Year 10):

Percent of Phase 2 map completed: 100% as of June 30, 2024.

Provide additional status information regarding your map:

Map of storm sewer system, catchments, and related elements is continually updated to incorporate findings and changes from catchment investigations.

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 entitled Durham NH Year 6 – IDDE Catchment Investigations

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

Number of outfalls/interconnections screened **during this reporting period**: 25

Percent of total known outfalls/interconnections screened **to date (Year 1 – Year 6)**: 44%

The inventory and ranking of outfalls/interconnections was updated in Year 6 and the IDDE Program Plan was revised as a result. The revised inventory and ranking of outfalls/interconnections can be found in this submission.

Wet Weather Screening

- No outfalls/interconnections were inspected for wet weather screening **during this report period**.
- Wet weather outfall/interconnection screening data can be found in submission entitled Durham NH Year 6 IDDE Catchment Investigations.

Number of outfalls screened **during this reporting period**: 3

Percent of total known outfalls/interconnections screened **to date (Year 1 – Year 6)**: 3%

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 entitled Durham NH Year 6 IDDE Catchment Investigations.

Number of catchment investigations **during this reporting period**: 25. 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 6)**: 44%

IDDE Progress

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

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, 2024)**: 0

Total number of illicit discharges removed **since the effective date of the permit (July 1, 2018 – June 30, 2024)**: 0

Employee Training

- Provided training to employees involved in IDDE program **during this reporting period:**
Durham 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, Durham 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

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*: 0

Number of inspections completed *during this reporting period*: 0

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

The Town of Durham works closely with contractors 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

- The Town of Durham has a regulatory mechanism(s) consistent with permit requirements. Date regulatory mechanism(s) was adopted: July 1st 2021. The regulatory document can be found at: <https://www.ci.durham.nh.us/planning/site-plan-regulations>.

As-built Drawings

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

Street Design and Parking Lots Report

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

Green Infrastructure Reports

- No updates were made *during this reporting period* because all required updates have been made to make green infrastructure practices allowable as outlined in the **Assessment Report**.
- No updates were made *during this reporting period* because all required **Local Regulation** updates have been made to make green infrastructure practices allowable as outlined in the Assessment Report.

Retrofit Properties Inventory

- Durham has identified the remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas, and of which are included in the list below:

Street Address	Facility name	Is this property located in the MS4 area?	Impervious Cover Area
50 Piscataqua Road	Wastewater Treatment Facility (IN DESIGN)	Yes	4.19
100 Stone Quarry Drive	Durham Public Works Office (COMPLETE)	Yes	2.18
6 Meserve Road	Woodridge Park	No	1.29
49 Madbury Road	Library	Yes	0.77
8 Newmarket Road	Town Hall	Yes	0.69
86 Dover Road	Police Department	Yes	0.64
10 Old Piscataqua Road	Churchill Rink	Yes	0.63
8 Old Piscataqua Road	Jackson's Landing	Yes	0.63
Pettee Brook Parking Lot	Pettee Brook Parking Lot	Yes	0.62
Newmarket Road	Sullivan Monument Lot	Yes	0.61
Old Landing Road	Durham Landing	Yes	0.53
46 Dover Road	Dover Road Pump Station	Yes	0.43
Old Piscataqua Road	Old Piscataqua Road Parking Lot	Yes	0.40
9 Depot Road	Depot Road Parking Lot	Yes	0.33
45 Mill Pond Road	Smith Chapel	Yes	0.33
Oyster River Road	Oyster River Park	Yes	0.27

Durham has modified or retrofitted the following MS4 properties with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.e of the permit. Following is a list of the properties that were modified or retrofitted as well as the type of BMP(s) that were implemented:

List of MS4 Properties: 100 Stone Quarry Drive, DPW – 2 Detention Basins and 1 Bio-Retention Basin were installed July 31 – August 11, 2023

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

As part of the Town's Major Components Upgrade Project at the WWTF (50 Piscataqua Road), Stormwater BMP's are currently being designed and are planned for construction in summer 2025/2026.

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:** 175

Number of catch basins cleaned **during this reporting period:** 175

Total volume **or** mass of material removed from **all** catch basins **during this reporting period:** 20 Cubic Yards

Total number of catch basins within the MS4 system: 651

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.

All curbed roadways were swept at least once **during this reporting period.** Downtown core roadways are swept every weekday in the month of March and twice per week during the remaining 11 months of the year.

Number of (lane) miles swept **during this reporting period:** 126 Lane Miles

Volume of swept material **during this reporting period:** 39 Loads or 117 CY

Stormwater Pollution Prevention Plan (SWPPP)

The Town of Durham has implemented a SWPPP for the Durham Public Works Office located at 100 Stone Quarry Drive

Number of site inspections completed for **during this reporting period:** 4

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 report during Year 6.
 - 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:

See attached submission Durham NH Year 6 BMPs Inventory and Inspection Report

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 which can be found at the following website
<https://www.ci.durham.nh.us/publicworks/stormwater>

The Municipal Green SnowPro Certification Program's (Program) rules and regulations were approved and adopted in 2024. The Program anticipates they will be ready to accept voluntary applications from municipalities in fall of 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 this submission. 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:

Not Applicable

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.** Downtown core roadways are swept every weekday in the month of March and twice per week during the remaining 11 months of the year.
 - Implemented a fall leaf litter collection program in addition to a post-drop street sweeping **during this reporting period.**

Nitrogen Source Identification Report- Update

Structural BMPs

- The Nitrogen Source Identification Report was reviewed and there were no updates required **during this reporting period** because there were no revisions. The Nitrogen Source Identification Report can be found at https://www.ci.durham.nh.us/sites/default/files/fileattachments/public_works/page/55264/town_of_durham_nitrogen_source_identification_report_september_2022.pdf
- Durham has installed a minimum of one structural BMP(s) as a demonstration project within the drainage area of the water quality limited water or its tributaries **by the end of this reporting period.** The type of structural BMP(s) that was installed was 2 Detention Basins and 1 Bio-Retention Basin at Durham Public Works, 100 Stone Quarry Drive. Information regarding the installed BMP(s) can be found in *Section 2: Potential Structural BMPs Report (Year 5) in Part I.1.c.iii* of the Nitrogen Source Identification Report.

- ☒ Structural BMP(s) listed in Attachment 3 to Appendix F already existing or installed in the regulated area by Durham or its agents was tracked and the nitrogen removal by the BMP(s) was estimated consistent with Attachment 3 to Appendix F. The BMP(s) type, total area treated by the BMP(s), the design storage volume of the BMP(s), and the estimated nitrogen removed in mass per year by the BMP(s) were documented in **PTAP 2024 Nutrient Reduction Report** at <https://www.ci.durham.nh.us/publicworks/stormwater> . The total estimated nitrogen removed from the installed BMP(s) is unknown at this time (see attached submission Durham NH Year 6 PTAP Batch Import).

Durham is utilizing the Pollutant Tracking and Account Project, better known as PTAP, to track nutrient reductions associated with stormwater structural and non-structural best management practices. PTAP was developed by the University of New Hampshire Stormwater Center and New Hampshire Department of Environmental Services utilizing the EPA Region 1 approved performance curves, to provide New Hampshire communities with a way to track their nutrient reductions. PTAP allows Durham the benefit of utilizing a uniform, defensible and consistent method for tracking reductions so that a common, weight of evidence based approach can be shared with other entities including EPA, NHDES, and other MS4 communities and interest groups. The consistent and systematic tracking and accounting framework also allows for routine updates when improved science becomes available.

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

Durham is utilizing the Pollutant Tracking and Accounting Project and has completed a recent PTAP inventory update (see attached submission Durham NH Year 6 PTAP Batch Import) but has not received the resultant Nutrient Reduction Report to date. Year 6 Nitrogen Reductions will be submitted with the Year 7 Annual Report.

Phosphorus Impairment (Appendix H)

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

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

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

Chloride TMDL (Appendix F)

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

Lake and Pond Phosphorus TMDL (Appendix F)

Permittee **does not** have a lake and pond phosphorus TMDL.

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

Not Applicable

Description of Any Changes in Identified BMPs or Measurable Goals

The Town of Durham 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

The Town of Durham will continue to implement activities in accordance with the permit and SWMP.