

Stormwater Management Program (SWMP)

Town of North Hampton

233 Atlantic Avenue NH 03862

EPA NPDES Permit Number NHR041024

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

Signature _____

Date

Background

Stormwater Regulation

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from Census designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

Permit Program Background

On May 1, 2003, EPA Region 1 issued its Final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 small MS4 permit) consistent with the Phase II rule. The 2003 small MS4 permit covered "traditional" (i.e., cities and towns) and "non-traditional" (i.e., Federal and state agencies) MS4 Operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008 but remained in effect until operators were authorized under the 2016 MS4 general permit, which became effective on July 1, 2018.

Stormwater Management Program (SWMP)

The SWMP describes and details the activities and measures that will be implemented to meet the terms and conditions of the permit. The SWMP accurately describes the permittees plans and activities. The document should be updated and/or modified during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term. The main elements of the stormwater management program are (1) a public education program in order to affect public behavior causing stormwater pollution, (2) an opportunity for the public to participate and provide comments on the stormwater program (3) a program to effectively find and eliminate illicit discharges within the MS4 (4) a program to effectively control construction site stormwater discharges to the MS4 (5) a program to ensure that stormwater from development projects entering the MS4 is adequately controlled by the construction of stormwater controls, and (6) a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

Town Specific MS4 Background (optional)

Originally developed in 2014, the North Hampton SWMP is now updated to reflect the 2017 permit requirements. The Year 1, 2, and 3 Annual Reports highlighted many successes as the Town moves to address stormwater issues and increase maintenance operations and public outreach. Within Year 3, one educational message was released to educate residents on proper grass and grass clipping disposal or use (Fall 2020). Seven construction site stormwater site plans were reviewed which did not yield any enforcement actions. Catch basins (160) were inspected within the town - 116 were cleaned and 18 cubic yards of material was removed in total. Fifty-three miles of streets were swept, and winter road maintenance procedures were developed. Outfall investigations, dry weather sampling, ranking, and catchment delineations have been completed. An IDDE plan has been developed and adopted by the Town and SWPPPs for Town owned facilities have been developed.

Small MS4 Authorization

The NOI was submitted on

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

Authorization to Discharge was granted on

The Authorization Letter can be found (document name or web address):

Stormwater Management Program Team

SWMP Team Coordinator

Name	Michael Tully	Title	Interim Town Administrator
Department	Town Administrator		
Phone Number	(603) 964-8087	Email	mtully@northhampton-nh.gov
Responsibilities	While holding a non-voting advisory role, the responsibilities of the Town Administrator include the proper administration of the daily operation of the Town government, ensuring the Select Board is informed of the needs and conditions of the Town, providing reports at the request of the Select Board, and advising the Select Board on issues that may arise.		

SWMP Team

Name	John Hubbard	Title	Director
Department	Public Works		
Phone Number	(603) 964-6442	Email	jhubbard@northhampton-nh.gov
Responsibilities	Under the supervision of the Town Administrator, the Director of the Public Works Department oversees town infrastructure services, such as street cleaning, stormwater system maintenance, and emergency response for snow and ice, flood, and severe weather mitigation.		

Receiving Waters

The following table lists all receiving waters, impairments and number of outfalls discharging to each waterbody segment.

OR The information can be found in the following document or at the following web address:

Waterbody segment that receives flow from the MS4	Applicable TMDLs or Impairments	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Winnicut River – Unnamed Brook – Cornelius Brook NHRIV600030901-01	TN (App. H)	None, relieved from requirements of Part 2.2.2.a.i and Appendix H Part I	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Benthic-Macroinvertebrate Bioassessments (Streams), Mercury, pH
Winnicut River – Unnamed Brook NHRIV600030901-07	TN (App. H)	None, relieved from requirements of Part 2.2.2.a.i and Appendix H Part I	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury, pH
Little River – Unnamed / Oliver Brook NHRIV600031004-04		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury, pH
Little River NHEST600031004-10	Bacteria (App. F)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dioxin (including 2,3,7,8-TCDD), Fecal Coliform, Mercury, Polychlorinated biphenyls
Chapel Brook NHRIV600031002-24, -23	Bacteria (App F)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mercury, fecal coliform
Chapel Brook NHEST600031002-03			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury, fecal coliform
Garland Brook – Unnamed Brook NHRIV60031004-31			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury
Little River – Unnamed Brook NHRIV60031004-01		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury
Little River – Unnamed Brook NHRIV60031004-03		1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury
Little River – Mill Pond IMP60031004-02			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury
Little River –Stevens Recreation Pond Dam IMP60031004-03			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mercury

Eligibility: Endangered Species and Historic Properties

*Reminder: The proper consultations and updates to the SWMP must be conducted for construction projects related to your permit compliance where Construction General Permit (CGP) coverage, which requires its own endangered species and history preservation determination, is NOT being obtained.

Attachments:

- ☒ The results of Appendix C U.S. Fish and Wildlife Service endangered species screening determination
- ☒ The results of the Appendix D historic property screening investigations
- ☐ If applicable, any documents from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other Tribal representative to mitigate effects

These attachments are required within one year of the permit effective date and are:

- ☒ Attached to this document (document names listed below)

Appendix A – Historic Properties MS4 Map

- ☒ Publicly available at the website listed below

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

Under what criterion did permittee determine eligibility for ESA?

- ☐ Criterion A ☐ Criterion B ☒ Criterion C

Under what criterion did permittee determine eligibility for Historic Properties?

- ☒ Criterion A ☒ Criterion B ☐ Criterion C ☐ Criterion D

MCM 1

Public Education and Outreach

Permit Part 2.3.2

Objective: The permittee shall implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that the pollutants in stormwater are reduced.

Examples and Templates:

[EPA's Stormwater Education Toolbox](#)

[MassDEP's Stormwater Outreach Materials](#)

Other templates relevant to MCM 1 can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#peo>

Requirement Year 3

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 was not included in summer newsletter due to size.

Instead, the Agricultural Committee submitted an article in Fall 2020 newsletter about grass and the use of clippings as fertilizer.

Description:

Distribution and promotion of community newsletters containing flyers 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 and/or Business and Institutions

Measurable Goal(s):

Lawn care enthusiast 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 quantity of materials distributed.

Following is the number of newsletters that were distributed:

Year 3 = 2500 (residential physical addresses) + 500 (residential PO Boxes) + 200 (businesses)

***Typically newsletters done four times per year but only two were published due to COVID-19 impacts*

***Town intends to send out future quarterly updates via email blast*

Goal was achieved.

Message Date:

Fall 2020

BMP: Petwaste Disposal

Document Name and/or Web Address:

Not applicable

Description:

Due to COVID-19 impacts, no pet waste disposal outreach information was distributed to the targeted audience.

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.

Goal was not achieved.

Message Date:

***Typically newsletters done four times per year but only two were published due to COVID-19 impacts which limited the town's ability to send out MS4 outreach messages*

***Town intends to send out future quarterly updates via email blast and a flyer to go out with residents who register dog tags (600-1,000 dogs in town).*

BMP: Disposal of Leaf and Grass Clippings**Document Name and/or Web Address:**

The Agricultural Committee submitted an article in Fall 2020 newsletter about grass and the use of clippings as fertilizer.

Description:

Distribute and promote informational flyers, pledge cards, and/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.

Following is the number of newsletters that were distributed:

Year 3 = 2500 (residential physical addresses) + 500 (residential PO Boxes) + 200 (businesses)

***Typically newsletters done four times per year but only two were published due to COVID-19 impacts*

***Town intends to send out future quarterly updates via email blast*

Goal was achieved.

Message Date:

Fall 2020

BMP: Septic System Maintenance**Document Name and/or Web Address:**

Not applicable

Description:

Due to COVID-19 impacts, no septic system maintenance outreach information was distributed to the targeted audience.

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.

Goal was not achieved.

Message Date:

We were going to hand out brochures at the Old Home Day held annually in August, but this event been cancelled the last two years due to COVID-19. Normally well attended.

BMP: Industrial

Description: There are no industrial facilities in the Town of North Hampton's MS4 area.

MCM 2

Public Involvement and Participation

Permit Part 2.3.3

Objective: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

BMP: Public Review of SWMP

Location of Plan and/or Web Address: Town Hall / Public Works Department

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

Annual review and update of SWMP, post SWMP on town website, and have SWMP hardcopies at town offices for public comment.

BMP: Public Participation in SWMP Development

Description:

Hold public comment session during one Select Board meeting per year.

Responsible Department/Parties: Public Works Department with Select Board

Measurable Goal(s):

Public comment session held each year. Annual public input provided.

BMP: Annual Reporting of Public Participation Activities

Description:

Annual reporting of public participation activities.

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

Description of public participation activities included in annual reporting, which is posted online.

MCM 3

Illicit Discharge Detection and Elimination (IDDE) Program

Permit Part 2.3.4

Objective: The permittee shall implement an IDDE program to systematically find and eliminate illicit sources of non-stormwater discharges to its municipal separate storm sewer system and implement procedures to prevent such discharges.

Examples and Templates:

[IDDE Program Template and SOPs](#)

Other templates relevant to IDDE can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#idde>

BMP: IDDE Legal Authority

See Illicit Discharge Detection and Elimination (IDDE) Plan



BMP: Sanitary Sewer Overflow (SSO) Inventory

See Illicit Discharge Detection and Elimination (IDDE) Plan

BMP: Map of Storm Sewer System

See Illicit Discharge Detection and Elimination (IDDE) Plan

BMP: IDDE Program

See Illicit Discharge Detection and Elimination (IDDE) Plan

BMP: Employee Training

See Illicit Discharge Detection and Elimination (IDDE) Plan

MCM 4

Construction Site Stormwater Runoff Control

Permit Part 2.3.5

Objective: The objective of an effective construction stormwater runoff control program is to minimize or eliminate erosion and maintain sediment on site so that it is not transported in stormwater and allowed to discharge to a water of the U.S. through the permittee's MS4.

Examples and Templates:

Examples and templates relevant to MCM 4, including model ordinances and site inspection templates, can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#csrc>

BMP: Sediment and Erosion Control Ordinance

BMP Number (Optional) _____

Completed (May 2016) ☒

Ordinances Link or Reference: https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/subdiv_regs_05172016.pdf

Department Responsible for Enforcement: Planning Board

BMP: Site Plan Review Procedures

BMP Number (Optional) _____

Completed (June 2017) ☒

Document Name and/or Web Address: https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Description:

Document site plan review procedures in regulations. Completed 3 site plan reviews in 2019.

Responsible Department/Parties: Planning Board

Measurable Goal(s):

Conduct site plan review of 100% of projects according to the procedures outlined above.

BMP: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures

BMP Number (Optional) _____

Completed (June 2017) ☒

Document Name and/or Web Address: https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Description:

Enact erosion and sediment control (ESC) regulations.

Responsible Department/Parties: Planning Board, with enforcement by Code Enforcement

Measurable Goal(s):

Inspect 100% of construction sites as outlined in the above document and take enforcement actions as needed.

BMP: Erosion and Sediment Control

BMP Number (Optional) _____

Completed (June 2017) ☒

Document Name and/or Web Address:

https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Description:

Enact requirements for construction operators to implement a sediment and erosion control program. This can include references to BMP designs in the NH Storm water Manual available online here:

<http://des.nh.gov/organization/divisions/water/stormwater/manual.htm>

Responsible Department/Parties: Planning Board

Measurable Goal(s):

Complete within one year of the effective date of permit.

BMP: Construction and Site Waste Controls

BMP Number (Optional) _____

Completed (June 2017) ☒

Document Name and/or Web Address:

https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Description:

Enact requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes.

Responsible Department/Parties: Planning Board

Measurable Goal(s):

Complete within one year of the effective date of permit.

MCM 5

Post Construction Stormwater Management in New Development and Redevelopment

Permit Part 2.3.6

Objective: The objective of an effective post construction stormwater management program is to reduce the discharge of pollutants found in stormwater to the MS4 through the retention or treatment of stormwater after construction on new or redeveloped sites and to ensure proper maintenance of installed stormwater controls.

Examples and Templates:

Examples and templates relevant to MCM 5, including model ordinances and bylaw review templates and guidance can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#pcsm>

BMP: Post-Construction Ordinance

BMP Number (Optional) _____

Completed (by year 2) ☒

Town Ordinances Link or Reference: https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Department Responsible for Enforcement: Planning Board / Board of Selectman

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) _____

Completed (by year 4) ☐

Document Name and/or Web Address: TBD

Description:

Develop a report assessing requirements that affect the creation of impervious cover. The report will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.

Responsible Department/Parties: Planning Board through a public hearing process

Measurable Goal(s):

Recommendations are implemented with progress reported annually.

BMP: Green Infrastructure Report

BMP Number (Optional) _____

Completed (by year 4) ☐

Document Name and/or Web Address: TBD

Description:

Determine feasibility and allow for green infrastructure implementation. Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site condition exist.

Responsible Department/Parties: Planning Board through a public hearing process.

Measurable Goal(s):

Recommendations are implemented with progress reported annually.

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) _____

Completed (by year 4) ☐

Document Name and/or Web Address: TBD

Description:

Target properties for reduction in impervious cover. Complete an inventory and priority ranking of permittee-owned property and existing infrastructure that could be retrofitted with BMPs designed to reduce the frequency, volume, and pollutant loads of stormwater discharge to its MS4 through the mitigation of impervious area.

Responsible Department/Parties: Public Works Director / Town Engineer

Measurable Goal(s):

The list is completed and updated annually on retrofitted properties.

BMP: As-Built Plans for On-Site Stormwater Controls

BMP Number (Optional) _____

Completed (June 2017) ☒

Document Name and/or Web Address: https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Description:

Enact procedures to require submission of as-built plans, and ensure long term operations and maintenance are part of the SWMP.

Responsible Department/Parties: Planning Board

Measurable Goal(s):

Require submission of as-built plans for completed projects.

BMP: New Development/Redevelopment Stormwater Retention and Treatment Assessment

BMP Number (Optional) _____

Completed (June 2017) ☒

Document Name and/or Web Address: https://www.northhampton-nh.gov/sites/northhamptonnh/files/uploads/site_plan_regs06202017_1.pdf

Description:

Ensure stormwater controls or management practices for new development and redevelopment meet the retention and treatment requirements of the permit.

Responsible Department/Parties: Planning Board

Measurable Goal(s):

Complete 2 years after effective date of permit.

MCM 6

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Permit Part 2.3.7

Objective: The permittee shall implement an operations and maintenance program for permittee-owned operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned operations.

Examples and Templates:

Examples and templates relevant to MCM 6, including SOP templates for catch basin cleaning, street sweeping, vehicle maintenance, parks and open space management, winter deicing, and Stormwater Pollution Prevention Plans can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh>

PERMITTEE OWNED FACILITIES

BMP: Parks and Open Spaces Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2) ☐

Document Name and/or Web Address:

Description:

Establish procedures to address the proper use, storage, and disposal of pesticides, herbicides, and fertilizers (PHF) including minimizing the use of these products in accordance with Section 2.3.7.1.a of the MS4 permit.

Responsible Department/Parties:

Measurable Goal(s):

Prepare inventory (complete). Implement the SOP listed above on 100% of the parks and open spaces.

Properties List (Optional):

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2) ☐

Document Name and/or Web Address:

Description:

Evaluate the use, storage, and disposal of petroleum products and other potential stormwater pollutants. Provide employee training as necessary, ensure that Spill Prevention Plans are in place. Develop management procedures for dumpsters and other waste management equipment. Sweep lots and areas surrounding the facilities clean to reduce runoff of pollutants in accordance with Section 2.3.7.1 b. of the MS4 permit.

Responsible Department/Parties:

Measurable Goal(s):

Prepare inventory (complete). Implement the SOP listed above on 100% of buildings and facilities.

Properties List (Optional):

Public Works Facility, 10 Airport Road, North Hampton, NH
Recycling Collection Center and Brush Dump, 14 Cherry Road, North Hampton, NH

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2) ☐

Document Name and/or Web Address: TBD

Description:

Establish procedures for the storage of permittee vehicles. Vehicles with fluid leaks shall be stored indoors of containment shall be provided. Evaluate fueling areas owned by the permittee or used by permittee vehicles. Establish procedures to ensure that vehicle wash waters are not discharged to municipal stormdrains or surface waters.

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

Prepare inventory. Implement the SOP listed above for 100% of vehicles and equipment.

Properties List (Optional):

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Procedure Completed (by year 2) ☒

Document Name and/or Web Address: TBD

Description:

Establish and record annually implementation of program activities for maintenance, repair, and rehabilitation of MS4 infrastructure.

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

100% of infrastructure is maintained to ensure proper function in accordance with the procedures above.

BMP: Catch Basin Cleaning Program

BMP Number (Optional) _____

Written Procedure Completed (by year 1) ☒

Document Name and/or Web Address:

Process is outlined in this SWMP document.

Description:

The Public Works Department performs routine inspections, cleaning, and maintenance of the approximately 70 catch basins that are located within the MS4 regulated area. The Town of North Hampton will implement

the following catch basin inspection and cleaning procedures to reduce the discharge of pollutants from the MS4.

- Routine inspection and cleaning of catch basins. Catch basins should be cleaned such that they are no more than 50 percent full at any time. The Town of North Hampton will initially inspect all catch basins within the regulated area within two (2) years of the effective date of the permit to evaluate sediment or debris accumulation and establish optimal inspection and maintenance frequencies to meet the “50 percent” goal.
- If a catch basin sump is more than 50 percent full during two consecutive routine inspections or cleaning events, the finding will be documented, the contributing drainage area will be investigated for sources of excessive sediment loading, and to the extent practicable, contributing sources will be addressed. If no contributing sources are found, the inspection and cleaning frequency will be increased.
- Catch basins located near construction activities (roadway construction, residential, commercial, or industrial development or redevelopment) will be inspected and cleaned more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings (i.e., catch basins more than 50 percent full). Priority will also be given to catch basins that discharge to impaired waters.
- The following information will be included in each annual report:
 - Any action taken in response to excessive sediment or debris loadings
 - Total number of catch basins
 - Number of catch basins inspected
 - Number of catch basins cleaned
 - Total volume or mass of material removed from catch basins.

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

All catch basins are cleaned in accordance to the document above such that no catch basin is more than 50% full at any given time.

BMP: Street Sweeping Program

BMP Number (Optional) _____

Written Procedure Completed (by year 1) ☒

Document Name and/or Web Address:

Process is outlined in this SWMP document.

Description:

The Town of North Hampton will implement the following street and parking lot sweeping procedures to reduce the discharge of pollutants from the MS4:

- All streets with the exception of rural uncurbed roads with no catch basins or high-speed limited access highways will be swept and/or cleaned a minimum of once per year in the spring (following

winter activities such as sanding).

- More frequent sweeping will be considered for targeted areas based on pollutant load reduction potential, inspections, pollutant loads, catch basin cleaning or inspection results, land use, impaired waters, or other factors.
- More frequent sweeping is required for municipally-owned streets and parking lots in areas that discharge to certain nutrient-impaired waters. Sweeping must be performed in these areas a minimum of two times per year, once in the spring (following winter activities such as sanding) and at least once in the fall (Sept 1 – Dec 1; following leaf fall)
- For rural uncurbed roadways with no catch basins and limited access highways, the Town of North Hampton will either meet the minimum frequencies above, or develop and implement an inspection, documentation, and targeted sweeping plan outlining reduced frequencies within two (2) year of the effective date of the permit and submit such plan with its year one annual report.
- The following information will be included in each annual report:
 - Number of miles cleaned, or the volume or mass of material removed

Responsible Department/Parties: Public works Department

Measurable Goal(s):

Annually sweep 100% of all streets and 50% of all municipal parking lots in accordance with the schedule listed above.

BMP: Winter Road Maintenance Program

BMP Number (Optional) _____

Written Procedure Completed (by year 1) ☒

Document Name and/or Web Address:

The full Town of North Hampton Winter Road Maintenance Procedures document is available at the Town's website. The process is outlined in this SWMP document.

Description:

The Town of North Hampton will implement the following winter maintenance procedures to reduce the discharge of pollutants from the MS4:

- Minimize the use and optimize the application of sodium chloride and other salt (while maintaining public safety) and consider opportunities for use of alternative materials.
- Optimize sand and/or chemical application rates through the use, where practicable, of automated application equipment (e.g., zero velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals. Maintain records of the application of sand, anti-icing and/or de-icing chemicals to document the reduction of chemicals to meet established goals.
- Prevent exposure of deicing product (salt, sand, or alternative products) storage piles to precipitation by enclosing or covering the storage piles. Implement good housekeeping, diversions, containment or other measures to minimize exposure resulting from adding to or removing materials from the pile. Store piles in such a manner as not to impact surface water resources, groundwater resources, recharge areas, and wells
- Provide training for municipal employees on winter roadway maintenance procedures.

Responsible Department/Parties: Public Works Department, Use Green SnowPro Program

Measurable Goal(s):

Evaluate at least one salt/chloride alternative for use in the municipality. Implement salt use optimization program during deicing season.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) _____ **Completed (by year 1)** ☒

Document Name and/or Web Address: TBD

Description:

Structural stormwater BMPs will be inspected annually at a minimum and maintained as needed.

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

Inspect and maintain 100% of treatment structures to ensure proper function at least annually.

BMP: SWPPP

BMP Number (Optional) _____ **Completed (by year 2)** ☒

Document Name and/or Web Address: <https://www.northhampton-nh.gov/public-works>

Description:

Develop and implement a SWPPP for all municipally owned or operated facilities in accordance with Section 2.3.7.2 of the MS4 permit.

Responsible Department/Parties: Public Works Department

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities. SWPPPs developed for the Town's public works facility and recycling and collection center.

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

<https://www3.epa.gov/region1/npdes/stormwater/nh/reports/2019/north-hampton-nh-ar19.pdf>

Year 2 Annual Report

Document Name and/or Web Address:

<https://www3.epa.gov/region1/npdes/stormwater/nh/reports/2020/north-hampton-nh-ar20.pdf>

Year 3 Annual Report

Document Name and/or Web Address:

Will be posted on the EPA website. Link to website to be included once completed.

Year 4 Annual Report

Document Name and/or Web Address:

N/A

Year 5 Annual Report

Document Name and/or Web Address:

N/A

TMDLs and Water Quality Limited Waters

Select the applicable Impairment(s) and/or TMDL(s).

Impairment(s)

- ☒ Bacteria/Pathogens ☐ Chloride ☒ Nitrogen ☐ Phosphorus
- ☐ Solids/oil/grease (hydrocarbons)/metals

TMDL(s) (Appendix F)

- ☒ Bacteria/ Pathogens ☐ Chloride ☐ Lake and Pond Phosphorus

Alternative TMDL Plans (if applicable)

- ☐ Alternative Bacteria/Pathogens Reduction Plan

can be found (document name or web address):

- ☐ Alternative Chloride Reduction Plan

can be found (document name or web address):

- ☐ Alternative Lake and Pond Phosphorus Reduction Plan

can be found (document name or web address):

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)
Little River NHST600031004-10	NH Statewide TMDL for Bacteria Impaired Waters

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM-3 IDDE Program – Written IDDE Program

Public Education and Outreach

(Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information))

Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outreach Messages - Residential

Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outreach Messages - Residential

Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria.

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outreach Messages – Residential; Outreach Messages – Commercial

Phosphorus Impairment

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
N/A		<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Public Education and Outreach

(Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information))

Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Distribute an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increase street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.1.d.iii to a minimum of two times per year (spring and fall)

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.e shall include consideration of BMPs to reduce phosphorus discharges

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Potential structural BMPs

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the phosphorus removal by the BMP consistent with Attachment 1 to Appendix H. Document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in pass per year by the BMP in each annual report

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for phosphorus removal

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

The document name (if attached) and/or web address is/are:

N/A

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.e shall include consideration of BMPs that infiltrate stormwater where feasible

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 5

Potential Structural BMPs

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.e or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Complete a listing of planned structural BMPs and a plan and schedule for implementation

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Nitrogen Impairment

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)
Winnicut River – Unnamed Brook – Cornelius Brook NHRIV600030901-01	No outfalls discharging to segment, relieved from requirements of Part 2.2.2.a.i and Appendix H Part I
Winnicut River – Unnamed Brook NHRIV600030901-07	No outfalls discharging to segment, relieved from requirements of Part 2.2.2.a.i and Appendix H Part I

Annual Requirements Beginning Year 1

Public Education and Outreach

(Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information))

Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outreach Messages – Residential; Outreach Messages - Commercial

Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outreach Messages – Residential

Distribute an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Outreach Messages – Residential; Outreach Messages - Commercial

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Establish requirements for the use of slow release fertilizers on permittee owned property currently using fertilizer, in addition to reducing and managing fertilizer use as provided in part 2.3.7.1.a

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Construction and Site Waste Controls

Increase street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.1.d.iii to a minimum of two times per year (spring and fall)

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Street Sweeping

Nitrogen Reduction Tracking BMP

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen removal by the BMP consistent with Attachment 1 to Appendix H. .

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 is found in the following document or website and is updated yearly at a minimum:

N/A

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 4

Complete a Nitrogen Source Identification Report

The document name (if attached) and/or web address is/are:

N/A

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.e shall include consideration of BMPs to reduce nitrogen discharges

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 5

Potential Structural BMPs

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.e or identified in the Nitrogen Source Identification Report that are within the drainage area of the impaired water or its tributaries

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Complete a listing of planned structural BMPs and a plan and schedule for implementation

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Solids, Oil and Grease (Hydrocarbons), or Metals Impairments

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)
N/A	

Annual Requirements Beginning Year 1

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Lake and Pond Phosphorus TMDL

Applicable Receiving Waterbody(ies)	PCP Complete	Document Location	Add/Delete Row
N/A	<input type="checkbox"/>		<input type="button" value="+"/> <input type="button" value="-"/>

Chloride Impairment

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
N/A		<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Public Education and Outreach

(Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information))

Include an annual message in November/December to private road salt applicators and commercial industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

N/A

Requirements Due by Year 3

Develop a Salt Reduction Plan

The document name (if attached) and/or web address is/are:

N/A

Requirements Due by Year 4

Continue implementation of the Salt Reduction Plan

Requirements Due by Year 5

Fully implement the Salt Reduction Plan

Chloride TMDL

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
N/A		<div><div>+</div><div>-</div></div>

Annual Requirements Beginning Year 1

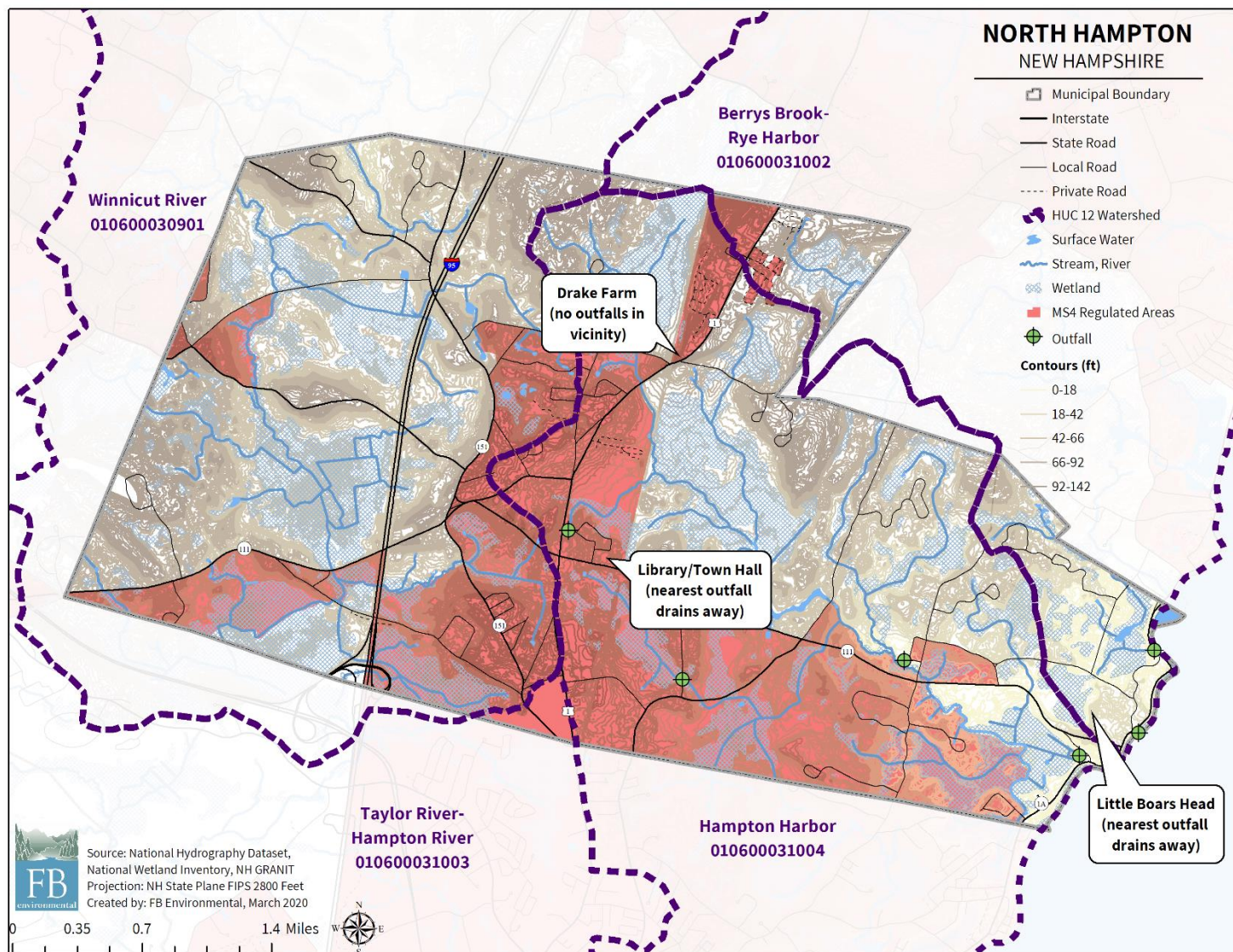
Develop and implement a Chloride Reduction Plan

The document name (if attached) and/or web address is/are:

N/A

Appendix A – Historic Properties Map

Map showing historic properties in relation to MS4 areas and outfalls in North Hampton. No historic properties are impacted by MS4 discharge waters.



Appendix B – Public Drinking Water

There exist four privately-owned public water wells in North Hampton (not mapped for security concerns). Three of the four wells managed by Aquarion Water Co. are located within the Winnicut River watershed but not within the MS4 area (though a small amount of the headwaters drain MS4 areas). One well is located within the Little River watershed and within the MS4 area. The Town of North Hampton will prioritize the area around and draining to this well for MS4 activities and will follow and comply with N.H. Code Admin. R. Part Env-Wq 1500.