

**STORMWATER MANAGEMENT PROGRAM (SWMP)  
TOWN OF KINGSTON, NEW HAMPSHIRE  
163 MAIN STREET  
KINGSTON, NEW HAMPSHIRE**



Prepared for:



Prepared by:



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Permit ID NHR041014

COPY # \_\_\_\_\_

**June 30, 2021  
PERMIT YEAR 3**

## LIST OF REVISIONS

NUMBER	DATE	DESCRIPTION OF REVISION	COMPLETED BY
0.	2018	Development of SWMP	GeoInsight, Inc.
1.	July 30, 2019	Received USEPA permit authorization	GeoInsight, Inc.
2.	June 30, 2021	Annual Update	GeoInsight, Inc.
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## 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.”

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

(Printed)

Title: \_\_\_\_\_

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**STORMWATER MANAGEMENT PROGRAM (SWMP)  
TOWN OF KINGSTON, NEW HAMPSHIRE  
163 MAIN STREET  
KINGSTON, NEW HAMPSHIRE**

**1.0 BACKGROUND**

**1.1 STORMWATER REGULATION**

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in United States Environmental Protection Agency's (USEPA) 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 Municipal Separate Storm Sewer Systems (MS4s) in urbanized areas and operators of small construction sites, through the use of National Pollutant Discharge Elimination System (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 United States Census Bureau designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

**1.2 PERMIT PROGRAM BACKGROUND**

On May 1, 2003, USEPA 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 2017 New Hampshire (NH) Small MS4 general permit, which became effective on July 1, 2018. A copy of the 2017 NH Small MS4 general permit is included in Appendix A.

**1.3 HISTORY OF SMALL MS4 PERMITS FOR TOWN OF KINGSTON**

The Town of Kingston (the Town) obtained coverage under the 2003 small MS4 permit and operated under this permit until a new permit was effective in 2018. A number of programs and measurable goals were achieved under the 2003 small MS4 permit. The established goals are discussed in this plan as they apply to the new small MS4 permit.

## **2.0 INTRODUCTION**

### **2.1 LIMITATIONS OF COVERAGE**

The 2017 NH Small MS4 general permit does not authorize a number of different stormwater discharges defined in Section 1.3 of the permit. The Town's MS4 regulated area does not have stormwater discharges that would meet the limitations of coverage (i.e., separate NPDES permit, industrial activity, construction activity, underground injection control devices, adversely affect endangered or threatened species, effect on a National Register of Historic Property, discharges to territorial seas, waters of contiguous zone or oceans, etc.).

### **2.2 ALLOWABLE NON-STORMWATER DISCHARGES**

The following categories of non-stormwater discharges are allowed under the permit:

- a. water line flushing;
- b. landscape irrigation;
- c. diverted stream flows;
- d. rising groundwater;
- e. uncontaminated ground water infiltration (as defined at 40 CFR § 35.2005(20));
- f. uncontaminated pumped ground water;
- g. discharge from potable water sources;
- h. foundation drains;
- i. air conditioning condensation;
- j. irrigation water, springs;
- k. water from crawl space pumps;
- l. footing drains;
- m. lawn watering;
- n. individual resident car washing;
- o. flows from riparian habitats and wetlands;
- p. de-chlorinated swimming pool discharges;
- q. street wash waters; and
- r. residential building wash waters without detergents.

Discharges or flows from firefighting activities are allowed under this permit and need only be addressed where they are identified as significant sources of pollutants to Waters of the United States.

If it is determined that a significant contributor of pollutants is found from an allowable non-stormwater discharge, then that category is not allowed. The source is then deemed an "illicit discharge" and addressed as part of the Illicit Discharge Detection and Elimination Program (IDDEP) described in the Town's written plan as part of this SWMP.

### **2.3 SMALL MS4 PERMIT AUTHORIZATION**



The 2017 NH Small MS4 general permit authorizes the discharge of stormwater from urbanized areas located within a small MS4 community. Authorization is granted to a small MS4 community by the USEPA through the submittal of a Notice of Intent (NOI). The Town submitted an NOI on October 2, 2018. A copy of the NOI is provided in Appendix B.

The authorization to discharge was granted on July 30, 2019. A copy of the authorization letter is included in Appendix B.

If the 2017 NH Small MS4 general permit is not reissued prior to the expiration date (i.e., June 30, 2022), it will be administratively continued and remain in force and effect for discharges that were authorized prior to expiration. Therefore, the Town will continue its coverage under the 2017 NH Small MS4 general permit until a new permit is issued by the USEPA requiring the filing of a new NOI.

## **2.4 STORMWATER MANAGEMENT PROGRAM (SWMP)**

The SWMP (or the Plan) 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. The main elements, referred to as Minimum Control Measures (MCMs), of the stormwater management program are:

- (1) MCM 1: a public education program in order to affect public behavior causing stormwater pollution;
- (2) MCM 2: an opportunity for the public to participate and provide comments on the stormwater program;
- (3) MCM 3: a program to effectively find and eliminate illicit discharges within the MS4 regulated area;
- (4) MCM 4: a program to effectively control construction site stormwater discharges to MS4s;
- (5) MCM 5: a program to ensure that stormwater from development projects entering the Town's MS4s is adequately controlled by the construction of permanent stormwater controls; and
- (6) MCM 6: a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

## **2.5 SWMP AVAILABILITY**

The Town retains a copy of the current SWMP at the Highway Maintenance Office. The SWMP shall be immediately available to representatives from USEPA, NHDES, the U.S. Fish and Wildlife Service (USFWS), and/or the National Marine Fisheries Service (NMFS) at the time of an onsite inspection or upon request.

An electronic copy of the SWMP is also available to the public on the Town website.

## **2.6 SWMP REVISIONS**

The SWMP shall be reviewed annually, and revisions made, as necessary. Edits made to the SWMP will be listed in the List of Revisions on Page i.

### 3.0 STORMWATER MANAGEMENT PROGRAM TEAM

SWMP TEAM ROLE	NAME	TITLE	DEPARTMENT	PHONE NUMBER	EMAIL
Stormwater Coordinator	Richard St. Hilaire	Road Agent	Highway Department	(603) 642-8042	highway@kingstonnh.org
Authorized Representative	Phillip Coombs	Chairman of the Board of Selectman	Selectmen's Office	(603) 642-3342	admin@kingstonnh.org
Website Administrator	Susan Ayer	Permitting & Assessing	Selectmen's Office	(603) 642-3342	admin@kingstonnh.org
Recordkeeper	Lori Dowd	Administrative Assistant	Highway Department	(603) 642-3342	admin@kingstonnh.org
Conservation Commission	Evelyn Nathan	Conservation Chairman	Conservation Commission	(603) 642-5290	evynathan@comcast.net
Planning Board	Glenn G. Coppelman	Planning Board Chairman	Planning Board	(603) 770-5355	pb@kingstonnh.org
Assistant Stormwater Coordinator	Brian Martin	Assistant Road Agent	Highway Department	(603) 642-8042	highway@kingstonnh.org

#### 4.0 RECEIVING WATERS

The following table lists MS4 Permit receiving waters, 2018 EPA-approved NHDES 303(d) list impairments, and number of outfalls discharging to each waterbody segment.

WATERBODY SEGMENT THAT RECEIVES FLOW FROM THE MS4 REGULATED AREA	NUMBER OF MS4 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
Little River [NHIMP600030803-04]	0	<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"/>	nitrogen-GBT
Little River [NHIMP600030803-05]	0	<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"/>	nitrogen-GBT
Powwow River – Cheney Mill Dam [NHIMP700061403-03]	0	<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"/>	
Powwow River – Powwow Pond [NHIMP700061403-04]	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH, non-native aquatic plants
Bayberry Pond [NHLAK700061401-01]	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"/>	
Country Pond [NHLAK700061403-03-01]	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"/>	CHM, pH, PCBs
Great Pond [NHLAK700061403-06-01]	4	<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"/>	pH
Great Pond – Kingston State Park Beach [NHLAK700061403-06-02]	0	<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"/>	

WATERBODY SEGMENT THAT RECEIVES FLOW FROM THE MS4 REGULATED AREA	NUMBER OF MS4 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
Great Pond – Camp Blue Triangle Beach [NHLAK700061403-06-03]	0	<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"/>	
Great Pond – Camp Lincoln Beach [NHLAK700061403-06-04]	0	<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"/>	
Great Pond – Great Pond Park Association Beach [NHLAK700061403-06-05]	0	<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"/>	
Greenwood Pond [NHLAK700061403-07]	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"/>	CHM
Halfmoon Pond [NHLAK700061403-08]	1	<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"/>	<input type="checkbox"/>	CHM
Long Pond [NHLAK700061403-09]	0	<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"/>	non-native aquatic plants
Bartlett Mill Pond [NHLAK700061403-12]	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"/>	
Little River - Unnamed Brook [NHRIV600030803-06]	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"/>	nitrogen-GBT
Little River – Unnamed Brook [NHRIV600030803-07]	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"/>	BMB, nitrogen- GBT
Little River – Unnamed Brook [NHRIV600030803-08]	2	<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"/>	nitrogen-GBT

WATERBODY SEGMENT THAT RECEIVES FLOW FROM THE MS4 REGULATED AREA	NUMBER OF MS4 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
Unnamed Brook [NHRIV600030803-09]	5	<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"/>	nitrogen-GBT
Brickyard Brook [NHRIV600030805-03]	0	<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"/>	nitrogen-GBT
Unnamed Brook - York Brook [NHRIV600030805-25]	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"/>	nitrogen-GBT
Little River - Unnamed Brook [NHRIV700061401-01]	9	<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"/>	
Bartlett Brook – Colby Brook – Unnamed Brook [NHRIV700061403-05]	2	<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"/>	pH
Unnamed Brook - From Bartlett Mill Pond To Country Pond [NHRIV700061403-06]	0	<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"/>	
Powwow River [NHRIV700061403-09]	0	<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"/>	pH
Powwow River [NHRIV700061403-10]	0	<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"/>	
Powwow River – Unnamed Brook [NHRIV700061403-11]	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"/>	pH

WATERBODY SEGMENT THAT RECEIVES FLOW FROM THE MS4 REGULATED AREA	NUMBER OF MS4 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
Unnamed Brook – To Great Pond Through Northwest Inlet [NHRIV700061403-12]	2	<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"/>	pH
Powwow River [NHRIV700061403-14]	1	<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"/>	pH
Great Pond – Thayer Rd Inlet [NHRIV700061403-27]	0	<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"/>	pH
Powwow Pond – RTE 125 Inlet [NHRIV700061403-29]	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"/>	pH
Bakie Brook [NHRIV700061403-30]	0	<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"/>	pH
Unnamed Brook [NHRIV700061403-39]	0	<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"/>	
Unnamed Brook [NHRIV700061403-41]	0	<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"/>	

nitrogen-GBT: Great Bay tributary nitrogen impairment

CHM: cyanobacteria hepatotoxic microcystins, monitor for total phosphorus<sup>1</sup>

PCBs: polychlorinated biphenyls, no MS4 monitoring required<sup>1</sup>

BMB: benthic macroinvertebrate bioassessments (streams), no MS4 monitoring required<sup>1</sup>

<sup>1</sup> “Guidance to New Hampshire MS4 permittees on aspects of the NH MS4 permit that reference the NH Department of Environmental Services”, WD-18-02, NHDES, May 18, 2018. <https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/wd-18-02.pdf>

## 5.0 ELIGIBILITY

### 5.1 AREAS OF COVERAGE

The 2017 NH Small MS4 general permit applies to areas defined by the US Census as urbanized. A map of the US Census map for the Town is shown in Figure 1.

### 5.2 ENDANGERED SPECIES

Annual review of the United States Fish & Wildlife Service online database (IPaC) identified two species, the Northern Long-Eared Bat and the Small Whorled Pegonia, in the vicinity of the regulated areas of the Town. According to the report generated by the IPaC tool, species not observed in the last 25 years are considered historic and are not included in the report. The Northern Long-Eared Bat is neither aquatic nor aquatic dependent species; therefore, impacts to the species are not anticipated from the Town's stormwater discharges. For this reason, stormwater discharges meet **Criterion C** of the 2017 NH Small MS4 general permit. A copy of the IPaC report and USEPA concurrence are included as Appendix C.

### 5.3 HISTORIC PROPERTIES

Within the Town's regulated area, according to the National Register of Historic Properties (NRHP) list there are four listed historical sites. The Town does not have stormwater and allowable non-stormwater discharges with the potential to affect these historic properties. The Town currently does have plans to construct or install stormwater control measures that cause less than 1 acre of subsurface disturbance. In addition, the Town is continuing previous coverage of their 2003 MS4 permit and is eligible under **Criterion A**, with no additional agency consultation required at this time.

A copy of the list of historic sites from the NRHP is included in Appendix C.



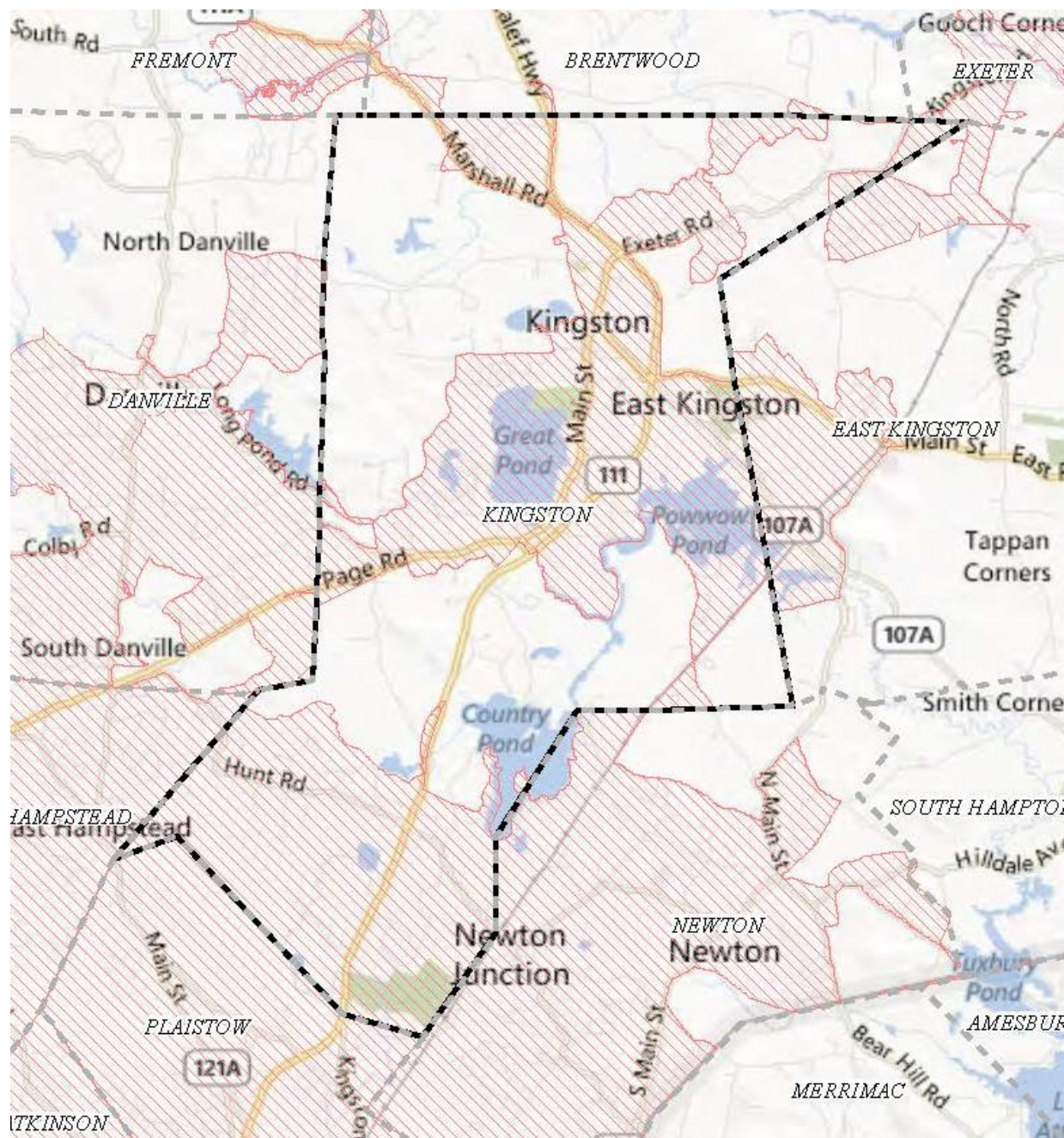


Figure 1 NPDES Phase II Stormwater Program Automatically Designated MS4 Areas, Kingston NH

Source: USEPA <https://www3.epa.gov/region1/npdes/stormwater/nh/ram/Kingston.pdf>

## **6.0 MCM 1 - PUBLIC EDUCATION AND OUTREACH (PERMIT PART 2.3.2)**

### **6.1 OBJECTIVE**

The permittee shall implement an education program that includes educational goals based upon stormwater issues of significance within the MS4 regulated 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.

### **6.2 MCM 1 BMPS**

The appropriate MCM 1 Best Management Practices (BMPs) are listed in the table below as they apply to the Town.

	<b>BMP MEDIA / CATEGORY</b>	<b>BMP DESCRIPTION</b>	<b>TARGETED AUDIENCE</b>	<b>RESPONSIBLE DEPARTMENT/ PARTIES</b>	<b>MEASURABLE GOAL</b>	<b>YEAR TO START</b>	<b>YEAR 3 STATUS</b>
1.1	Special Events / Festivals / Fairs	Household Hazardous Waste Collection Day event (Spring and Fall).	Residents	Selectman's Office	Number of brochures distributed	2019	Posted
1.2	Website / Cable TV	Stormwater management webpage on MS4 program and associated Town ordinance requirements.	All (residents, commercial, developers, industrial)	Town Administrator	Site access data	2020	completed
1.3	Website / Cable TV	Spring (April/May) website announcement and information posted encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers.	Residents & Business / Commercial / Institutions	Town Administrator	Site access data	2020	completed
1.4	Website / Cable TV	Summary (June/July) website announcement and information on encouraging the proper management of pet waste, including noting any existing ordinances where appropriate.	Residents & Business / Commercial / Institutions	Town Administrator	Site access data	2019	completed
1.5	Website / Cable TV	Fall (August/September/October) website announcement and information encouraging the proper disposal of leaf litter.	Residents & Business / Commercial / Institutions	Town Administrator	Site access data	2019	completed
1.6	Meeting	Semi-annually include MS4 Permit topics on Town meeting agenda for public education of requirements.	All	Highway Department	Meeting attendance	2019	
1.7	School Curricula / Programs	Annual outreach to schools for stormwater education program.	Institutions	Highway Department	Number of students per year	2020	

## **7.0 MCM 2 - PUBLIC INVOLVEMENT AND PARTICIPATION (PERMIT PART 2.3.3)**

### **7.1 OBJECTIVE**

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

### **7.2 MCM 2 BMPS**

The appropriate MCM 2 BMPs are listed in the table below as they apply to the Town.

	<b>BMP CATEGORY</b>	<b>BMP DESCRIPTION</b>	<b>RESPONSIBLE DEPARTMENT/ PARTIES</b>	<b>ADDITIONAL DESCRIPTION / MEASURABLE GOAL</b>	<b>YEAR TO START</b>	<b>YEAR 3 STATUS</b>
2.1	Public Review	SWMP Review – Posted online for public view on Town website	Town Administrator / Highway Department	Allow annual review of SWMP and posting of the Plan on website	2019	posted
2.2	Public Participation	Annual meeting – SWMP review included in meeting agenda	Selectman's Office	Allow public to comment on SWMP annually	2019	annual
2.3	Public Participation	Household hazardous waste (semi-annually) / used oil collection day (monthly)	Selectman's Office	Volume collected annually	2019	
2.4	Public Participation	Hotline/website – reporting problems/violations	Town Administrator / Highway Department	Website posting of contact number for public to call Town regarding stormwater issues / Number of calls received annually	2019	

## **8.0 MCM 3 - ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM (PERMIT PART 2.3.4)**

### **8.1 OBJECTIVE**

The permittee shall implement a program to systematically find and eliminate illicit sources of non-stormwater discharges to its MS4s and implement procedures to prevent such discharges.

### **8.2 SANITARY SEWER OVERFLOW (SSO) INVENTORY**

The Town does not have sanitary sewer overflow systems; therefore, this part of the MS4 permit does not apply.

### **8.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM (IDDEP)**

The Town complies with the IDDEP requirements of the permit as described in the written IDDEP as a separate stand-alone document and appendices.

## **9.0 MCM 4 - CONSTRUCTION SITE STORMWATER RUNOFF CONTROL (PERMIT PART 2.3.5)**

### **9.1 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 regulated area.

### **9.2 MCM 4 BMPS**

The appropriate MCM 4 BMPs are listed in the table below as they apply to the Town.

	<b>BMP CATEGORY</b>	<b>BMP DESCRIPTION</b>	<b>RESPONSIBLE DEPARTMENT/ PARTIES</b>	<b>ADDITIONAL DESCRIPTION / MEASURABLE GOAL</b>	<b>YEAR TO START</b>	<b>YEAR 3 STATUS</b>
4.1	Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures.	Selectman's Office / Planning Board	Developed written procedures.	2019	draft SOPs completed
4.2	Site Plan Review	Complete written procedures of Site Plan Review and begin implementation.	Selectman's Office / Planning Board	Conduct Site Plan Review of 100% of applicable projects according to the procedures outlined in BMP 4.1.	2019	draft SOPs completed
4.3	Erosion and sediment control	Adoption of requirements for construction operators to implement a sediment and erosion control program.	Selectman's Office / Planning Board	Inspect 100% of construction sites as outlined in BMP 4.1 and take enforcement actions as needed.	2019	Land Use Regulations (2009)
4.4	Waste control	Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes.	Selectman's Office / Planning Board	Inspect 100% of construction sites as outlined in BMP 4.1 and take enforcement actions as needed.	2019	



**10.0 MCM 5 - POST CONSTRUCTION STORMWATER MANAGEMENT IN  
NEW DEVELOPMENT AND REDEVELOPMENT  
(PERMIT PART 2.3.6)**

**10.1 OBJECTIVE**

The objective of an effective post-construction stormwater management program is to reduce the discharge of pollutants found in stormwater to the Town's MS4s through the retention or treatment of stormwater after construction on new or redeveloped sites, and to ensure proper maintenance of installed stormwater controls.

**10.2 MCM 5 BMPS**

The appropriate MCM 5 BMPs are listed in the table below as they apply to the Town.

	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
5.1	As-built plans for on-site stormwater control	The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP.	Selectman's Office / Planning Board	Require submission of as-built plans for completed projects.	2019	added to Land Use Regulations
5.2	Target Town properties to reduce impervious areas	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/or pollutant loads of stormwater discharges to its MS4s through the mitigation of impervious area.	Selectman's Office / Planning Board	The list is completed by year 4 and updated as needed.	2022	YEAR 4
5.3	Allow green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist.	Selectman's Office / Planning Board	Recommendations are implemented by year 4 with progress reported annually.	2022	YEAR 4
5.4	Street design and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Selectman's Office / Planning Board	Recommendations are implemented by year 4 with progress reported annually.	2022	YEAR 4

**11.0 MCM 6 - GOOD HOUSEKEEPING AND POLLUTION PREVENTION FOR  
PERMITTEE OWNED OPERATIONS  
(PERMIT PART 2.3.7)**

**11.1 OBJECTIVE**

The permittee shall implement municipal programs for permittee-owned operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned facilities and properties.

**11.2 MCM 6 BMPS**

The appropriate MCM 6 BMPs are listed in the table below as they apply to the Town.

	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
6.1	Parks and Open Spaces Operations and Maintenance Procedures	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.	Highway Department	Implement the SOP on 100% of the Town's parks and open spaces.	2019	draft O&M completed
6.2	Buildings and Facilities Operations and Maintenance Procedures	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.	Highway Department	Implement the SOP on 100% of Town buildings and facilities.	2019	draft O&M completed
6.3	Vehicles and Equipment Operations and Maintenance Procedures	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 storm drains or surface waters.	Highway Department	Implement the SOP on 100% of Town vehicles and equipment.	2019	draft O&M completed

	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
6.4	Catch Basin Cleaning Program	Develop and implement SOP, as described in Section 11.3.1 of SWMP.	Highway Department	All catch basins are cleaned in accordance with the SOP such that no catch basin is more than 50% full at any given time.	2019	draft SOPs completed
6.5	Winter Road Maintenance Program	Develop and implement SOP, as described in Section <b>Error! Reference source not found.</b> of SWMP.	Highway Department	Evaluate at least one salt/chloride alternative for use in the municipality.	2019	draft SOPs completed
6.6	Stormwater Treatment Structures Inspection and Maintenance Procedures	Structural stormwater BMPs will be inspected annually at a minimum and maintained as needed.	Highway Department	Inspect and Maintain 100% of Town treatment structures to promote proper function.	2019	draft SOPs completed

### **11.3 STANDARD OPERATING PROCEDURES (SOPs)**

Within the MS4 regulated area the Highway Department performs routine inspections, cleaning, and maintenance as identified in the SOPs included in Appendix D.

#### **11.3.1 Catch Basin Cleaning Program SOP**

The Highway Department performs routine inspections, cleaning, and maintenance of catch basins that are located within the MS4 regulated area. The Town implements the catch basin inspection and cleaning standard operating procedures (SOPs) to reduce the discharge of pollutants from the MS4 regulated area. Catch basin maintenance includes:

- routine inspection and cleaning of municipal catch basins. Catch basins should be cleaned such that they are no more than 50 percent full at any time. The Town will have inspected 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 “less than 50 percent full” 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 are 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; and
  - total volume or mass of material removed from catch basins.

#### **11.3.2 Street Sweeping Program SOP**

The Town is a rural community that generally does not have curbed roadways that require

sweeping. Some town-owned parking areas may have curbing. If and where streets or paved parking areas are curbed, the Town will provide annual sweeping in the spring. A street sweeping SOP is included in Appendix D.

### **11.3.3 Winter Road Maintenance Program SOP**

The Town implements a winter maintenance procedure to reduce the discharge of pollutants from the MS4 regulated area. The SOP aims to:

- minimize and optimize the use of sodium chloride and other salt (while maintaining public safety) and consider opportunities for use of alternative deicing materials.
- reduce and 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. The Town maintains quantitative records of the application of sand, anti-icing, and/or deicing 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 stormwater runoff patterns, surface water resources, groundwater resources, recharge areas, or wells.
- Provide training for municipal employees on winter roadway maintenance procedures.

### **11.3.4 Stormwater Pollution Prevention Plan (SWPPP)**

The Town's single maintenance facility does not have a point source discharge or a stormwater conveyance system; therefore, a Stormwater Pollution Prevention Plan (SWPPP) is not required.

## **12.0 PROGRAM EVALUATION, RECORDKEEPING, AND REPORTING**

### **12.1 ANNUAL PROGRAM EVALUATION**

The Town shall complete an annual self-evaluation of its compliance with the terms and conditions of the 2017 NH Small MS4 general permit using the form provided in by the EPA.

### **12.2 RECORDKEEPING**

The Town must keep all records as required by the 2017 NH Small MS4 general permit for a period of at least five years. The Town shall retain these records in their files and is only required to submit the annual report to USEPA and NHDES.

### **12.3 ANNUAL REPORT**

The Town shall submit annual reports each year of the permit term. The reporting period will be a one-year period commencing on July 1, 2018, and ending on June 30 each subsequent anniversary thereof, except that the first annual report under the permit shall also cover the period from May 1, 2018 to July 1, 2018. The annual report is due 90 days from the close of each reporting period (i.e., September 28). Copies of the Annual Report are to be retained in Appendix G.

Reports shall be submitted to the USEPA and NHDES electronically at the following address: [stormwater.reports@epa.gov](mailto:stormwater.reports@epa.gov).



### 13.0 TMDLS AND WATER QUALITY LIMITED WATERS

The Town discharges stormwater into impaired waters identified in Part 2.2.1.e, Part 2.2.2.b, and Table F-1 of the permit with an approved Total Maximum Daily Load (TMDL) and impaired waters requiring a TMDL (i.e., Categories 4 and 5). The Town will comply with the permit conditions for these waterbodies as required in Appendix F and Appendix H of the permit as listed in the additional BMPs.

#### 13.1 BACTERIA/PATHOGENS IMPAIRMENT

Combination of impaired waters requirements and TMDL requirements, as applicable are described in this section.

APPLICABLE RECEIVING WATERBODIES AS LISTED IN APPENDIX F OF THE MS4 PERMIT AND PROVIDED IN THE MOST RECENT EPA-APPROVED LIST OF IMPAIRED WATERBODIES	TMDL/IMPAIRMENT NAME	TMDL LOADING REDUCTION GOAL (single sample/ geometric mean)
Great Pond Kingston State Park Beach [NHLAK700061403-06-02]	Bacteria TMDL, 2010 <sup>2</sup>	56% no data
Great Pond Camp Blue Triangle Beach [NHLAK700061403-06-03]	Bacteria TMDL, 2010 <sup>2</sup>	56% 19%
Great Pond Park Association Beach [NHLAK700061403-06-05]	Bacteria TMDL, 2015 <sup>3</sup>	70% 67%
Country Pond Lone Tree Scout Resv. Beach [NHLAK700061403-03-03] NOT LOCATED IN MS4 REGULATED AREA	Bacteria TMDL, 2010 <sup>2</sup>	37% no data
Great Pond Camp Lincoln Beach [NHLAK700061403-06-04]	bacteria impairment (2018 303d list)	n/a

<sup>2</sup> “Final Report New Hampshire Statewide Total Maximum Daily Load (TMDL) for Bacteria Impaired Waters”, NHDES, September 2010.  
<https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/final-bacteria-tmdl-report-statewide-379.pdf>

<sup>3</sup> “Total Maximum Daily Load (TMDL) Report for 3 Bacteria Impaired Waters in New Hampshire Final Report”, NHDES, September 2015.  
<https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/final-bacteria-tmdl-report-3.pdf>

	<b>BMP CATEGORY</b>	<b>BMP DESCRIPTION</b>	<b>RESPONSIBLE DEPARTMENT/ PARTIES</b>	<b>ADDITIONAL DESCRIPTION / MEASURABLE GOAL</b>	<b>YEAR TO START</b>	<b>YEAR 3 STATUS</b>
13.1	IDDEP	Rank outfalls to these receiving waters as high priority for IDDEP implementation in the initial outfall ranking.	See IDDEP	See IDDEP for ranking	2019	completed
13.2	Public Education and Outreach	Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually

## 13.2 PHOSPHORUS IMPAIRMENT

Combinations of impaired waters requirements and TMDL requirements, as applicable, are described in this Section.

<b>APPLICABLE RECEIVING WATERBODIES AS LISTED IN APPENDIX F OF THE MS4 PERMIT AND PROVIDED IN THE MOST RECENT EPA-APPROVED LIST OF IMPAIRED WATERBODIES</b>	<b>TMDL/IMPAIRMENT NAME</b>	<b>TMDL LOADING REDUCTION GOAL</b>
Greenwood Pond [NHLAK700061403-07]	Lake Phosphorus TMDL <sup>4</sup>	69%
Halfmoon Pond [NHLAK700061403-08]	Lake Phosphorus TMDL <sup>5</sup>	74%
Country Pond [NHLAK700061403-03-01]	Lake Phosphorus TMDL <sup>6</sup>	52%
Powwow River – Powwow Pond [NHIMP700061403-04]	phosphorus impairment (2018 303d list)	n/a

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<sup>4</sup> “Total Maximum Daily Load for Greenwood Pond, Kingston, NH”, NHDES, January 2011.  
<https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/final-phosphorous-tmdl-report-greenwood-pond.pdf>

<sup>5</sup> “Total Maximum Daily Load for Halfmoon Pond, Kingston, NH”, NHDES, January 2011.  
<https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/final-phosphorous-tmdl-report-halfmoon-pond.pdf>

<sup>6</sup> “Total Maximum Daily Load for Country Pond, Kingston, NH”, NHDES, January 2011.  
<https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/final-phosphorous-tmdl-report-country-pond.pdf>

	<b>BMP CATEGORY</b>	<b>BMP DESCRIPTION</b>	<b>RESPONSIBLE DEPARTMENT/ PARTIES</b>	<b>ADDITIONAL DESCRIPTION / MEASURABLE GOAL</b>	<b>YEAR TO START</b>	<b>YEAR 3 STATUS</b>
13.3	IDDEP	Rank outfalls to these receiving waters as high priority for IDDEP implementation in the initial outfall ranking.	See IDDEP	See IDDEP for ranking	2019	completed
13.4	Public Education and Outreach	Distribute an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually
13.5	Public Education and Outreach	Distribute an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually
13.6	Public Education and Outreach	Distribute an annual message in the encouraging the proper disposal of leaf litter as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually
13.7	Good Housekeeping and Pollution Prevention for Permittee Owned Operations	Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces.	See Section 11.3	Development of procedures	2019	draft O&M completed
13.8	Stormwater Management in New Development and Redevelopment	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce phosphorus discharges.	Board of Selectman / Conservation Commission	Annual Report of BMPs resulting from retrofit inventory and priority ranking.	2022	YEAR 4

	<b>BMP CATEGORY</b>	<b>BMP DESCRIPTION</b>	<b>RESPONSIBLE DEPARTMENT/ PARTIES</b>	<b>ADDITIONAL DESCRIPTION / MEASURABLE GOAL</b>	<b>YEAR TO START</b>	<b>YEAR 3 STATUS</b>
13.9	Phosphorus Reduction Tracking BMP	Any structural BMPs listed in Appendix F of the Permit that is 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 Appendix F of the Permit.	Board of Selectman / Conservation Commission	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.	2019	none installed to date
13.10	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.	Board of Selectman / Conservation Commission	Adoption of regulation directed at phosphorus removal.	2020	language added to Land Use Regulations
13.11	Phosphorus Source Identification Report	Complete a Phosphorus Source Identification Report (Powwow River-Powwow Pond).	Board of Selectman / Conservation Commission	Submittal of final report to USEPA in Year 4 Annual Report	2022	YEAR 4
13.12	Stormwater Management in New Development and Redevelopment	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible.	Board of Selectman / Conservation Commission	Annual Report of BMPs resulting from retrofit inventory and priority ranking.	2022	YEAR 4
13.13	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.d.ii or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries.	Board of Selectman / Conservation Commission	List of planned structural BMPs and a plan and schedule for implementation in the Year 5 Annual Report to USEPA	2023	YEAR 5

	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
13.14	Potential Structural BMPs	Complete a listing of planned structural BMPs and a plan and schedule for implementation.	Board of Selectman / Conservation Commission	Document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP in each annual report	2023	YEAR 5

### 13.3 NITROGEN IMPAIRMENT

Impaired waters requirements, as applicable, are described in this Section.

APPLICABLE RECEIVING WATERBODIES	TMDL/ IMPAIRMENT NAME
Exeter River [NHIMP600030803-03]	nitrogen impairment Great Bay Tributary
Little River [NHIMP600030803-04]	nitrogen impairment Great Bay Tributary
Little River [NHIMP600030803-05]	nitrogen impairment Great Bay Tributary
Little River - Unnamed Brook [NHRIV600030803-06]	nitrogen impairment Great Bay Tributary
Little River - Unnamed Brook [NHRIV600030803-07]	nitrogen impairment Great Bay Tributary
Little River - Unnamed Brook [NHRIV600030803-08]	nitrogen impairment Great Bay Tributary
Unnamed Brook [NHRIV600030803-09]	nitrogen impairment Great Bay Tributary
Brickyard Brook [NHRIV600030805-03]	nitrogen impairment Great Bay Tributary
Unnamed Brook [NHRIV600030805-10]	nitrogen impairment Great Bay Tributary
Perkins Brook - Unnamed Brook [NHRIV600030805-15]	nitrogen impairment Great Bay Tributary
Unnamed Brook - York Brook [NHRIV600030805-25]	nitrogen impairment Great Bay Tributary

	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
13.15	IDDEP	Rank outfalls to these receiving waters as high priority for IDDEP implementation in the initial outfall ranking.	See IDDEP	See IDDEP for ranking	2019	completed
13.16	Public Education and Outreach	Distribute an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually
13.17	Public Education and Outreach	Distribute an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually
13.18	Public Education and Outreach	Distribute an annual message in the encouraging the proper disposal of leaf litter as outlined in this SWMP.	See Section 6.2	See Section 6.2	2019	completed annually
13.19	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.	See Section 11.3	See Section 11.3	2019	draft O&M completed
13.20	Good Housekeeping and Pollution Prevention for Permittee Owned Operations	Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces.	See Section 11.3	See Section 11.3	2019	draft O&M completed



	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
13.21	Phosphorus Reduction Tracking BMP	Any structural BMPs listed in Appendix F of the Permit 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 Appendix F of the Permit.	Board of Selectman / Conservation Commission	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.	2019	none installed to date
13.22	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.	Board of Selectman / Conservation Commission	Adoption of regulation directed at nitrogen removal.	2020	language added to Land Use Regulations
13.23	Nitrogen Source Identification Report	Complete a Nitrogen Source Identification Report.	Board of Selectman / Conservation Commission	Submittal of final report to USEPA in Year 4 Annual Report	2022	YEAR 4
13.24	Stormwater Management in New Development and Redevelopment	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges.	Board of Selectman / Conservation Commission	Annual Report of BMPs resulting from retrofit inventory and priority ranking.	2022	YEAR 4
13.25	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.d.ii or identified in the Nitrogen Source Identification Report that are within the drainage area of the impaired water or its tributaries.	Board of Selectman / Conservation Commission	List of planned structural BMPs and a plan and schedule for implementation in the Year 5 Annual Report to USEPA	2023	YEAR 5

	BMP CATEGORY	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT/ PARTIES	ADDITIONAL DESCRIPTION / MEASURABLE GOAL	YEAR TO START	YEAR 3 STATUS
13.26	Potential Structural BMPs	Complete a listing of planned structural BMPs and a plan and schedule for implementation.	Board of Selectman / Conservation Commission	Document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP in each annual report	2023	YEAR 5

#### **13.4 SOLIDS, OIL AND GREASE (HYDROCARBONS), OR METALS IMPAIRMENTS**

Not applicable to the Town.

#### **13.5 CHLORIDE IMPAIRMENT**

Not applicable to the Town.

## **APPENDIX A**

**2017 NEW HAMPSHIRE SMALL MS4 GENERAL PERMIT  
with 2020 Permit Modifications**

## **APPENDIX B**

### **NOTICE OF INTENT AND USEPA CORRESPONDENCE**

## **APPENDIX C**

### **ENDANGERED SPECIES EVALUATION & HISTORICAL PROPERTIES REVIEW**

## **APPENDIX D**

### **TOWN STANDARD OPERATING PROCEDURES (SOPs)**

**APPENDIX E**  
**BACTERIA TMDLs**



## **APPENDIX F**

### **LAKE PHOSPHORUS TMDLs**

**APPENDIX G**  
ANNUAL REPORTS