

Stormwater Management Plan
Town of Spring Lake
NCS000438

21 February, 2023



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PART 1: INTRODUCTION

The purpose of this Stormwater Management Plan (SWMP) is to establish and define the means by which the Town of Spring Lake will comply with its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit and the applicable provisions of the Clean Water Act to meet the federal standard of reducing pollutants in stormwater runoff to the maximum extent practicable.

This SWMP identifies the specific elements and minimum measures that the Town of Spring Lake will develop, implement, enforce, evaluate and report to the North Carolina Department of Environmental Quality (NCDEQ) Division of Energy, Minerals and Land Resources (DEMLR) in order to comply with the MS4 Permit number NCS000438, as issued by NCDEQ. This permit covers activities associated with the discharge of stormwater from the MS4 as owned and operated by the Town of Spring Lake and located within the corporate limits of the Town of Spring Lake.

In preparing this SWMP, the Town of Spring Lake has evaluated its MS4 and the permit requirements to develop a comprehensive 5-year SWMP that will meet the community's needs, address local water quality issues and provide the minimum measures necessary to comply with the permit. The SWMP will be evaluated and updated annually to ensure that the elements and minimum measures it contains continue to adequately provide for permit compliance and the community's needs.

Once the SWMP is approved by NCDEQ, all provisions contained and referenced in this SWMP, along with any approved modifications of the SWMP, are incorporated by reference into the permit and become enforceable parts of the permit. Any major changes to the approved SWMP will require resubmittal, review and approval by NCDEQ, and may require a new public comment period depending on the nature of the changes.

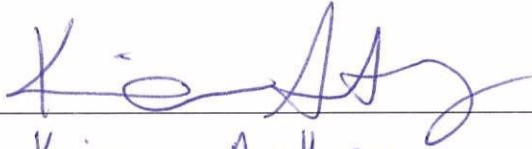
PART 2: CERTIFICATION

By my signature below I hereby 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 gather and evaluate 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 fines and imprisonment for knowing violations.

I am also aware that the contents of this document shall become an enforceable part of the NPDES MS4 Permit, and that both the Division and the Environmental Protection Agency have NPDES MS4 Permit compliance and enforcement authority.

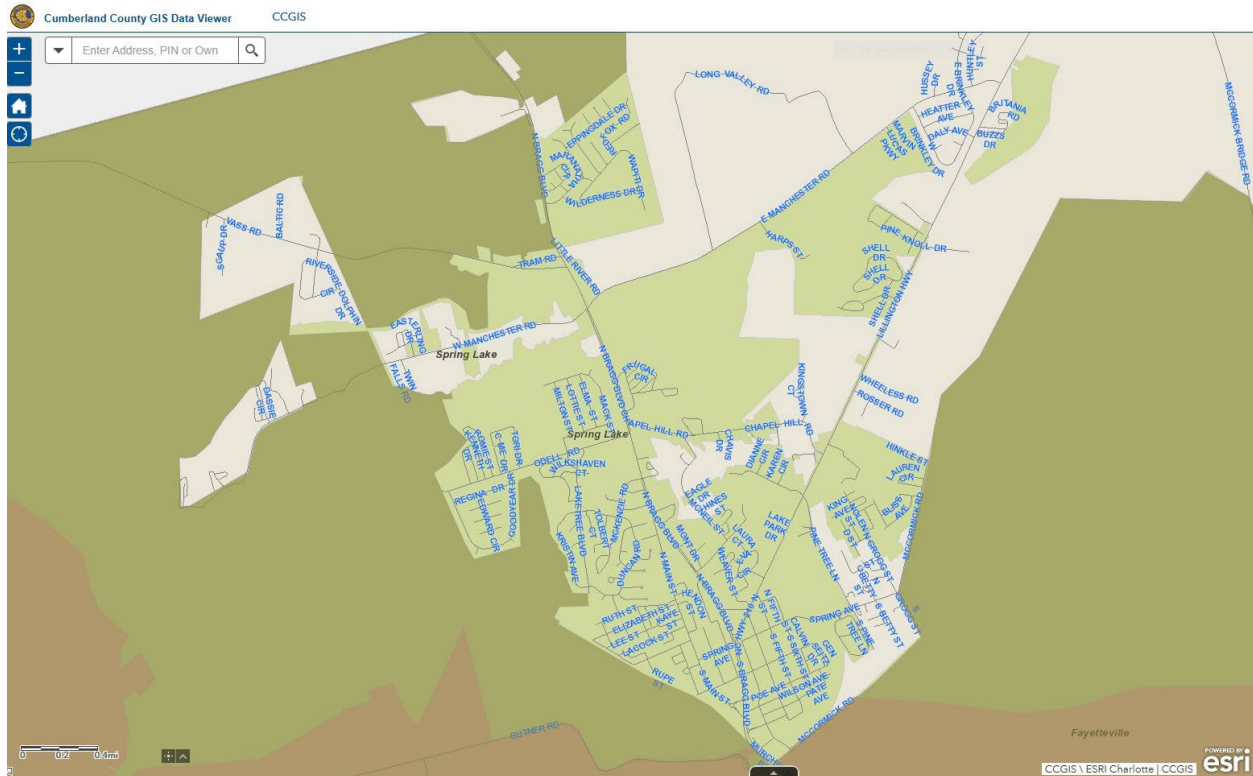
- I am a ranking elected official.
- I am a principal executive officer for the permitted MS4.
- I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (*check one*):
 - A specific individual having overall responsibility for stormwater matters.
 - A specific position having overall responsibility for stormwater matters.

Signature:	
Print Name:	Kia Anthony
Title:	Mayor of Spring Lake
Signed this 9 day of 2023, January	

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

This SWMP applies throughout the corporate limits of the Town of Spring Lake, including all regulated activities associated with the discharge of stormwater from the MS4. The map below shows the corporate limits of Town of Spring Lake as of the date of this document.



3.2 Existing MS4 Mapping

The current MS4 mapping includes town owned and private basins, pipes, outfalls, and open channels.

<https://springlake.maps.arcgis.com/apps/webappviewer/index.html?id=064009ed4c404ac7a1ffa23d8ef74ef4>

Table 1: Summary of Current MS4 Mapping

Percent of MS4 Area Mapped	100	%
No. of Major Outfalls* Mapped	15	total

**An outfall is a point where the MS4 discharges from a pipe or other conveyance (e.g. a ditch) directly into surface waters. Major outfalls are required to be mapped to meet permit requirements. A major outfall is a 36-inch diameter pipe or discharge from a drainage area > 50-acres; and for industrial zoned areas a 12-inch diameter pipe or a drainage area ≥ 2-acres.*

3.3 Receiving Waters

The Town of Spring Lake MS4 is located within the Cape Fear River Basin and discharges directly into receiving waters as listed in Table 2 below. Applicable water quality standards listed below are compiled from the following NCDEQ sources:

- [Waterbody Classification Map](#)
- [Impaired Waters and TMDL Map](#)
- Most recent NCDEQ Final [303\(d\) List](#)

Table 2: Summary of MS4 Receiving Waters

Receiving Water Name	Stream Index / AU Number	Water Quality Classification	303(d) Listed Parameter(s) of Interest
Tank (McDuffie) Creek	18-23-27	C	None
Jumping Run Creek	18-23-29	C	None
Muddy Creek	18-23-26	C	None
Lower Little River	12-23-24	C	None

*Water Quality Classification C: Aquatic Life, Secondary Recreation, Fresh Water

3.4 MS4 Interconnection

The Town of Spring Lake MS4 is interconnected with another regulated MS4 and directly receives stormwater from Fort Bragg Young Lake which then discharges to the receiving waters as listed in Table 2 above.

The MS4 does interconnect with the statewide NCDOT MS4 and includes:

- a. The interconnection is receiving stormwater from the NCDOT MS4. The number of interconnections is known/estimated/unknown. Quantity: N/A
- b. The interconnection is discharging stormwater into the NCDOT MS4. The number of interconnections is known/estimated/unknown. Quantity: N/A
- c. The Town of Spring Lake MS4 mapping does identify pre-construction interconnections with the NCDOT MS4 along NC-87
- d. The Town of Spring Lake MS4 mapping does include NCDOT MS4 outfalls.

3.5 Total Maximum Daily Loads (TMDLs)

The Town of Spring Lake does not have any impaired water bodies as indicated in the [NCDEQ Modeling & Assessment Unit web page](#). Therefor the MS4 has no TMDL reporting requirements. However, a periodic review of the web page will ensure that we stay in compliance should any of our waterbodies get put on this l

Table 3: Summary of Approved TMDLs

Water Body Name	TMDL Pollutant(s) of Concern	Stormwater Waste Load Allocation (Y/N)	Water Quality Recovery Program (Y/N)
NA			

3.6 Endangered and Threatened Species and Critical Habitat

Significant populations of threatened or endangered species and/or critical habitat are not identified within the regulated MS4 urbanized area. Based upon a review of the [Endangered and Threatened Species and Species of Concern by County for North Carolina Map](#) and [Listed species believe to or known to occur in North Carolina map](#) as provided by the [U.S. Fish and Wildlife Service](#), the species listed in [Table 4](#) have the potential to occur within the regulated MS4 urbanized area. Of those species listed, Table 4 summarizes the species that may be significantly impacted by the quality of surface waters within their habitat.

Table 4: Potential Federally Listed Species/Habitat Impacted by Surface Water Quality

Scientific Name	Common name	Species Group	Federal Listing Status
NA			

3.7 Industrial Facility Discharges

The Town of Spring Lake MS4 jurisdictional area includes the following industrial facilities which hold NPDES Industrial Stormwater Permits, as determined from the [NCDEQ Maps & Permit Data web page](#).

Table 5: NPDES Stormwater Permitted Industrial Facilities

Permit Number	Facility Name
NCG11041	Spring Lake Wastewater Treatment Plant
NCG100180	Spring Lake Auto Center
NCG100091	McLamb's Auto Salvage
NCG 140182	Concrete Service Company INC.

3.8 Non-Stormwater Discharges

The water quality impacts of non-stormwater discharges have been evaluated by the Town of Spring Lake as summarized in Table 6 below. The unpermitted non-stormwater flows listed as incidental do not significantly impact water quality. The Town of Spring Lake has evaluated residential and charity car washing and street washing for possible significant water quality impacts.

Street washing discharges are addressed under the Pavement Management Program in Part 10 of this SWMP. The Division has not required that other non-stormwater flows be specifically controlled by the Town of Spring Lake.

Wash water associated with car washing that does not contain detergents or does not discharge directly into the MS4 is considered incidental. Charity carwashes and personal washing at residences are not frequent enough at this point to warrant specific addressing in ordinances. At this time we remind residents to wash on their lawns or use non-detergent based washes to prevent discharge through PSAs on the webpages and social media, as well as in person visits as needed

Table 6: Non-Stormwater Discharges

Non-Stormwater Discharge	Water Quality Impacts
Water line and fire hydrant flushing	Incidental
Landscape irrigation	Incidental
Diverted stream flows	Incidental
Rising groundwater	Incidental
Uncontaminated groundwater infiltration	Incidental
Uncontaminated pumped groundwater	Incidental
Uncontaminated potable water sources	Incidental
Foundation drains	Incidental
Air conditioning condensate	Incidental
Irrigation waters	Incidental
Springs	Incidental
Water from crawl space pumps	Incidental
Footing drains	Incidental
Lawn watering	Incidental
Residential and charity car washing	Possible
Flows from riparian habitats and wetlands	Incidental
Dechlorinated swimming pool discharges	Incidental
Street wash water	Incidental
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the Town of Spring Lake is aware of other significant water quality issues within the permitted MS4 area. Based on user reports, public areas such as Mendoza Park and the Main Street area often contain litter and animal waste. In addition, yard waste and litter in most neighborhoods tends to gather in the drainage basins, especially around bus stops

Table 7 below summarizes the water quality pollutants identified throughout Part 3 of this SWMP, the likely activities/sources/targeted audiences attributed to each pollutant, and identifies the associated SWMP program(s) that address each. In addition, the Town of Spring Lake has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts.

Table 7: Summary of Target Pollutants and Sources

Target Pollutant(s)	Likely Source(s)/Target Audience(s)	SWMP Program Addressing Target Pollutant(s)/Audience(s)
Litter	Residents, Businesses, Schools	Public Education & Outreach
Yard debris	Residents, businesses	Public Education and Outreach
Animal waste	Residents and park visitors	Public Education and Outreach
Carwashing	Residents and non-profit groups	Public education and outreach
Household Hazardous Waste	Residents and businesses	Public involvement

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Stormwater Administrator is the manager of the stormwater program and MS4, under the direction of the Water Resources Director with the assistance of various departments as needed. The Water Resources Director reports directly to the Town Manager.

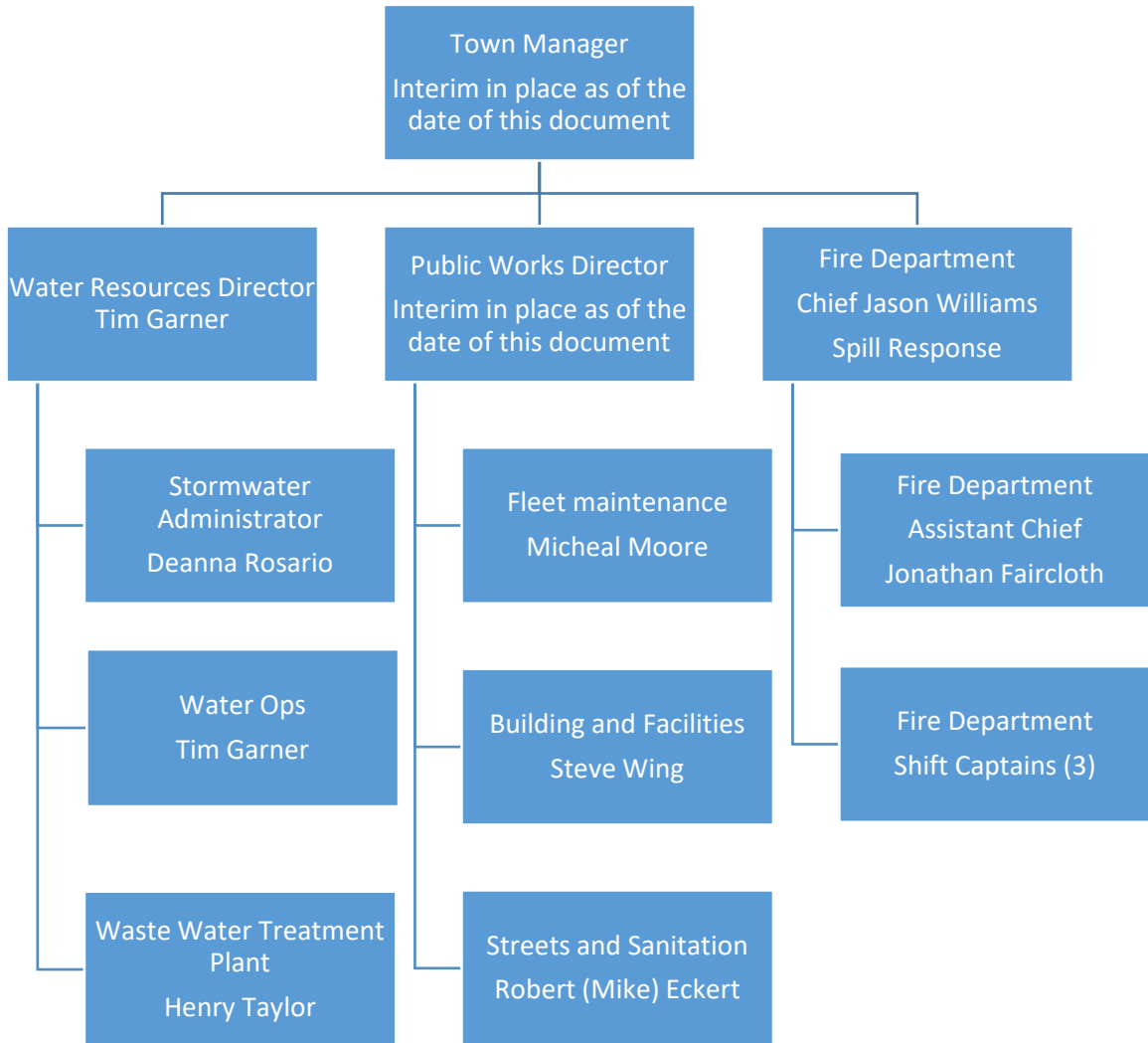


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Stormwater Administrator	Deanna Rosario	Water Resources
SWMP Management	Stormwater Administrator	Deanna Rosario	Water Resources
Public Education & Outreach	Stormwater Administrator	Deanna Rosario	Water Resources
Public Involvement & Participation	Stormwater Administrator	Deanna Rosario	Water Resources
Illicit Discharge Detection & Elimination	Stormwater Administrator	Deanna Rosario	Water Resources
Construction Site Runoff Control	Delegated to the State		
Post-Construction Stormwater Management	Stormwater Administrator	Deanna Rosario	Water Resources
Pollution Prevention/Good Housekeeping for Municipal Operations	Stormwater Administrator	Deanna Rosario	Water Resources
Municipal Facilities Operation & Maintenance Program	Buildings and Grounds	Steve Wing	Public Works
Spill Response Program	Fire Department	Jason Williams	Fire Department
MS4 Operation & Maintenance Program	Stormwater Administrator	Deanna Rosario	Water Resources
Municipal SCM Operation & Maintenance Program	Stormwater Administrator	Deanna Rosario	Water Resources

Pesticide, Herbicide & Fertilizer Management Program	Buildings and Grounds	Steve Wing	Public Works
Vehicle & Equipment Cleaning Program	Fleet Maintenance	Michael Moore	Public Works
Pavement Management Program	Streets Department	Robert (Mike) Eckert	Public Works
Total Maximum Daily Load (TMDL) Requirements	NA	NA	NA

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Spring Lake shall maintain adequate funding and staffing to implement and manage the provisions of the SWMP and comply with the requirements of the NPDES MS4 Permit. The budget includes the permit administering and compliance fee, which is billed by the Division annually.

A documented analysis of the funding and staffing of the program will be performed in year one of the permit, and re-evaluated annually, to ensure that the program is able to function as permitted.

Spring Lake Stormwater fees are billed though the county tax office at a current rate of \$2.75 per ERU for Residential and \$3.75 per ERU for commercial properties.

In the 2018/2019 budget, revenues were listed as coming from stormwater fees and penalties, interfund transfers, appropriated funds, and interest earnings for a budget of \$325,842

Expenses in the same year are listed as non-departmental, administration, interfund transfers, and budgetary accounting for a total outlay of \$325,842

4.3 Shared Responsibility

The Town of Spring Lake will share the responsibility to implement the following minimum control measures, which are at least as stringent as the corresponding NPDES MS4 Permit requirement. The Town of Spring Lake remains responsible for compliance if the other entity fails to perform the permit obligation, and may be subject to enforcement action if neither the Town of Spring Lake nor the other entity fully performs the permit obligation. Table 9 below summarizes who will be implementing the component, what the component program is called, the specific SWMP BMP or permit requirement that is being met by the shared responsibility, and whether or not a legal agreement to share responsibility is in place.

Table 9: Shared Responsibilities

SWMP BMP or Permit Requirement	Implementing Entity & Program Name	Legal Agreement (Y/N)
NPDEA Permit Section E	Cumberland County NC	Y
Clean Water Education Partnership (CWEP)	Triangle J COG	Y
Storm Water Association of NC	NC League of Municipalities	N

4.4 Co-Permittees

The are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000438 for the Town of Spring Lake. Table 10 summarizes contact information for each co-permittee.

Table 10: Co-Permittee Contact Information

Co-Permittee MS4 Name	Contact Person	Phone & E-Mail	Interlocal Agreement (Y/N)
NA			

4.5 Measurable Goals for Program Administration

The Town of Spring Lake will manage and report the following Best Management Practices (BMPs) for the administration of the Stormwater Management Program.

Table 11: Program Administration BMPs				
Permit Ref.	2.1.2 Program Implementation Measures to evaluate the performance and effectiveness of the SWMP program components at least annually. Results shall be used by the permittee to modify the program components as necessary to accomplish the intent of the Stormwater Program.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#. 1	Annual Self-Assessment			

Table 11: Program Administration BMPs

	Evaluate the funding, staffing, performance and effectiveness of the program components at least annually. Results shall be used to modify the program components as necessary to accomplish the intent of the Stormwater Program.	1. Prepare, conduct and document an annual evaluation of the program components.	1. Year one, re-evaluated annually	1. Adequate/not adequate
Permit Ref.	1.6: Permit Renewal Application Measures to submit a permit renewal application no later than 180 days prior to the expiration date of the NPDES MS4 permit.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.2	Permit Renewal Application			
	Submit a permit renewal application and Draft SWMP no later than 180 prior to permit expiration.	1. Draft SWMP applicable to the proceeding 5 years following permit re-issuance.	1. Permit Year 5	1. Yes/No
		2. Create all new required written procedures and review annually	1. permit year1, 2 review annually	21 yes/no 2 yes/no
		3. Certify the stormwater permit renewal application (Permit renewal application form and Draft SWMP for the next 5-year permit cycle) and submit to NCDEQ at least 180 days prior to permit expiration.	1. permit year 5	1. yes/no

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of Spring Lake will implement a Public Education and Outreach Program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and steps the public can take to reduce pollutants in storm water runoff.

The target audiences and identified pollutants listed in Part 3.9 of this SWMP, which will be addressed by the Public Education and Outreach Program, are summarized in Table 12 below. In addition, the Town of Spring Lake is required to inform businesses and the general public of the hazards associated with illicit discharges, illegal dumping and improper disposal of waste.

Table 12: Summary of Target Pollutants & Audiences

Target Pollutants/Sources	Target Audience(s)
Yard waste/organic debris	General Public
Cooling oil	Residents, restaurants, schools
Litter	General Public
Illicit Discharges	General Public, Businesses, Municipal Employees
Illegal Dumping	General Public, Businesses, Municipal Employees
Improper Disposal of Waste	General Public, Businesses, Municipal Employees

The Town of Spring Lake will manage, implement, and report the following public education and outreach BMPs.

Table 13: Public Education and Outreach BMPs				
Permit Ref.	3.2.2 and 3.2.4: Outreach to Targeted Audiences Measures to identify the specific elements and implementation of a Public Education and Outreach Program to share educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and how the public can reduce pollutants in stormwater runoff. The permittee shall provide educational information to identified target audiences on pollutants/sources identified in table 12 above, and shall document the extent of exposure of each media, event or activity, including those elements implemented locally or through a cooperative agreement.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.3	Tables at Town Events			
	Set up tables with information and giveaways at town events (Spring, 4 th of July, Clean Ups, Fall, Christmas) Creek Week	1. Hand out fliers provided by CWEP and created by SWA 2. CWEP performs outreach at events	1. Distribute information at minimum of 2 events a year 2. at least 2 events a year	Yes/no 2.# events attended
#.4	Education events			

Table 13: Public Education and Outreach BMPs

	Presentations at schools or after school programs to reduce litter and stormwater pollution	1. reach at least 100 children per year	1.number of children encountered	1. yes/no
#.5	Media Outreach			
	CWEP produces and distributes advertisements on radio, internet, and movie theaters in area.	1. # Ads produced	1. CWEP provides metrics reports yearly	1. yes/no
Permit Ref.	2.1.7, 3.2.3 and 3.6.5(c): Web Site Measures to provide a web site designed to convey the program’s message(s) and provide online materials including ordinances, or other regulatory mechanisms, or a list identifying the ordinances or other regulatory mechanisms, providing the legal authority necessary to implement and enforce the requirements of the permit and SWMP. The web page shall also provide developers with all relevant post-construction requirements, design standards, checklists and/or other materials.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.6	Town Website			
	Stormwater Page on town website	1. links to permit forms for developers	1. test links yearly	1. yes/no
		2. information posted for visitors to site	2. update as often as needed	2.yes/no
		3.links to social media	3. test links yearly	3. yes/no
#.7	Social Media pages			
	Stormwater Department social media pages	1. Facebook	1. continually	1. yes/no
		2.Twitter	2. continually	2. yes/no
Permit Ref.	3.2.5: Stormwater Hotline Measures for a stormwater hotline/helpline for the purpose of public education and outreach.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.8	Email and phone for reporting			
	Maintain stormwater specific email and phone numbers for public to report issues or ask questions	1. maintain email and phone numbers	1. continually	1. yes/no
		2. SW business cards with information listed	2. .continually	2. .yes/no

PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

This SWMP identifies the minimum elements and implementation of a Public Involvement and Participation Program that complies with applicable State, Tribal and local public notice requirements. The Town of Spring Lake will manage, implement and report the following public involvement and participation BMPs.

Table 14: Public Involvement and Participation BMPs				
Permit Ref.	3.3.1: Public Input Mechanisms for public involvement that provide for input on stormwater issues and the stormwater program.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.9	Appearance and Sustainability (Stormwater) Committee			
	Committee comprised of at least five residents and business owners to address combined concerns of appearance and environmental issues in town	1. meets a minimum of 6 times per year	1. yearly	1. # meetings held in fiscal year
Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities designed to promote ongoing citizen participation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.10	Bi-Annual Clean up			
	Twice a year the Appearance Committee, public works, and Stormwater Department conduct a town wide litter cleanup, also in conjunction with Police and Fire Departments to clean up streets, drains, and curblines	1. 2 times a year	1. semi-annually	1. yes/no Amount collected 2. number of volunteers 3. # streets cleaned
#.11	“Adoption” programs			
	Public is encouraged to “adopt” drains, streams, streets, etc in order to help keep litter cleaned up and make sure streams stormwater conveyances are clean and running clear to prevent blockages- waiting on Board of Aldermen to approve programs	1. continual efforts	1. semi annual	1. # streams and drains adopted and # bags trash removed

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Town of Spring Lake will develop, manage, implement, document, report and enforce an Illicit Discharge Detection and Elimination Program which shall, at a minimum, include the following illicit discharge detection and elimination BMPs.

Table 15: Illicit Discharge Detection and Elimination BMPs				
Permit Ref.	3.4.1: MS4 Map Measures to develop, update and maintain a municipal storm sewer system map including stormwater conveyances, flow direction, major outfalls and waters of the United States receiving stormwater discharges.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.12	Maintain and Update Spring Lake Utility GIS Map as needed			
	Keep current map up to date as infrastructure is added or updated	1. current map	1. continuously	1. yes/ no
Permit Ref.	3.4.2: Regulatory Mechanism Measures to provide an IDDE ordinance or other regulatory mechanism that provides legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping and spills into the MS4, including enforcement procedures and actions.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.13	Ordinance setting fines and criteria for illicit discharge penalties			
	Sec 40-448 of the Spring Lake Ordinances sets penalties and fines for polluters to include the cost of testing, cleanup, and treatment of polluted areas	1. Review ordinance and update as needed to stay within State regulatory measures	1. annually	1. yes/no
#.14	Cosmetic cleaning businesses properly permitted and in compliance.			
	Ensure all cosmetic groomers (cars, animals, surface cleaners, etc) are permitted and submit to inspection as per the ordinances	1. permit compliance	1. annually	1. yes/no
#15	SWA will dry test at least 20% of all outfalls per year of the permit cycle for 100% inspection every five years	1 dry test 20% of outfalls annually	1 30 per year 1-4 28 in year 5	1 yes/no

Table 15: Illicit Discharge Detection and Elimination BMPs

Permit Ref.	3.4.3: IDDE Plan			
	Measures to maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the MS4. The plan shall provide standard procedures and documentation to: <ol style="list-style-type: none"> a) Locate priority areas likely to have illicit discharges, b) Conduct routine dry weather outfall inspections, c) Identify illicit discharges and trace sources, d) Eliminate the source(s) of an illicit discharge, and e) Evaluate and assess the IDDE Program. 			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.16	Keep Current IDDE plan on file			
	Evaluate and assess the IDDE Program and update as needed	1. keep IDDE plan current	1. annual	1. yes/no
#.17	Create Public Outreach materials			
	Send out notices with utility bills and create handouts for events that inform public on how to identify and report possible illicit discharge	1. distribute materials	1. at least twice a year	1. yes/no
Permit Ref.	3.4.4: IDDE Tracking			
	Measures for tracking and documenting the date(s) an illicit discharge, illicit connection or illegal dumping was observed, the results of the investigation, any follow-up of the investigation, the date the investigation was closed, the issuance of enforcement actions, and the ability to identify chronic violators.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.18	Industrial outflow observance, testing, and tracking			
	Locate priority areas likely to have illicit discharges, Conduct routine dry weather outfall inspections, Identify illicit discharges and trace sources, Eliminate the source(s) of an illicit discharge,	1. create industrial illicit discharge and dry testing result files	1. continuously	1. yes/no
		2.track areas most likely to be illicit discharge sources and eliminate	2. continuously	2 yes/no
		3.enforcement	3. continuously	3. yes/no
#.19	Keep records of confirmed spill in non-industrial events			

Table 15: Illicit Discharge Detection and Elimination BMPs

	Create records to track spills to include location, POC, resolutions, and final remediation	1. keep tracking records	1. continuously	1. yes/no
Permit Ref.	3.4.5: Staff IDDE Training Measures to provide training for municipal staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge, illicit connection, illegal dumping or spills. Training shall include how to identify and report illicit discharges, illicit connections, illegal dumping and spills. Each staff training event shall be documented, including the agenda/materials, date, and number of staff participating.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.20	Town Staff Training			
	Train employees in public encounter jobs (FD, PD, Streets, Maintenance, etc.) to identify and report illicit discharge for evaluation by stormwater administrator	1. train 100% of town employees	1. yearly	1. # trained
#.21	IDDE training for stormwater administrator			
	Stormwater Administrator must attend formal training at least once per permit cycle, or when any certifications are due to expire.	1. schedule and attend classes as required to maintain knowledge base and or certification	1. continuously	1. yes
Permit Ref.	3.4.6: IDDE Reporting Measures for the public and staff to report illicit discharges, illegal dumping and spills. The mechanism shall be publicized to facilitate reporting and shall be managed to provide rapid response by appropriately trained personnel.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.22	Email and phone number			
	Maintain a dedicated stormwater email for reports by citizens and employees, as well as a stormwater help desk phone number. Links on town webpage, social media, fliers, and business cards.	1. maintain working lines	1. annual	1. yes/no

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, the Town of Spring Lake relies upon the North Carolina Sedimentation Pollution Control Act (SPCA) of 1973 as a qualifying alternative program to meet a portion of the NPDES MS4 Permit requirements for construction site runoff control measures. The SPCA requirements include reducing pollutants in stormwater runoff from construction activities that result in land disturbance of greater than or equal to one acre, and includes any construction activity that is part of a larger common plan of development that would disturb one acre or more. The state SPCA Program is either delegated to a city/town, delegated to a county, or implemented by NCDEQ in non-delegated areas.

Table 16: Qualifying Alternative Program Components for Construction Site Runoff Control Program

Permit Reference	State or Local Program Name	Legal Authority	Implementing Entity
3.5.1 - 3.5.4	State Implemented SPCA Program	15A NCAC Chapter 04	NCDEQ

The Town of Spring Lake also implements the following BMPs to meet NPDES MS4 Permit requirements.

Table 17: Construction Site Runoff Control BMPs				
Permit Ref.	3.5.6: Public Input Measures to provide and promote a means for the public to notify the appropriate authorities of observed erosion and sedimentation problems.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.23	Municipal Staff Training			
	Train municipal staff who receive calls from the public on the protocols for referral and tracking of construction site runoff control complaints. Town Clerk, Administrative Assistant, revenue personnel.	Train municipal staff on proper handling of construction site runoff control complaints.	Annually Permit Years 1-5	Number of staff trained,
Permit Ref.	3.5.5: Waste Management Measures to require construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impact to water quality.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.24	Stormwater runoff controls in Industrial Sites, including construction sites			

Table 17: Construction Site Runoff Control BMPs

	Article X of the Spring Lake Ordinances	1. review to ensure ordinance is up to date	1. annually	1. yes/no
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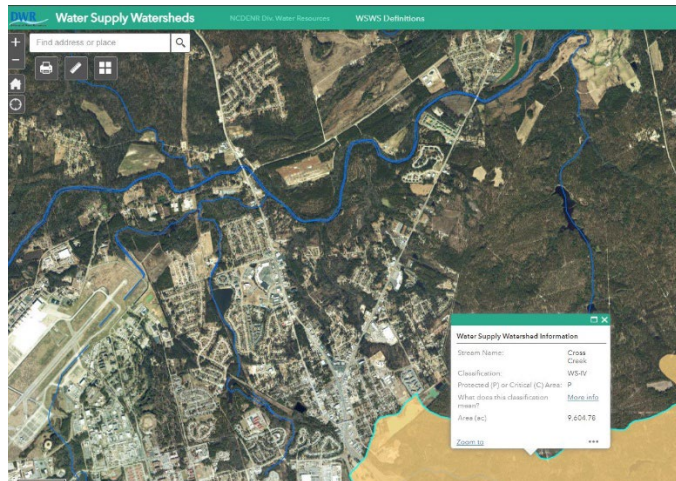
PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

This SWMP identifies the minimum elements to develop, implement and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that are located within the Town of Spring Lake and discharge into the MS4. These elements are designed to minimize water quality impacts utilizing a combination of structural Stormwater Control Measures (SCMs) and/or non-structural BMPs appropriate for the community, and ensure adequate long-term operation and maintenance of SCMs.

In accordance with 15A NCAC 02H .0153 and .1017, the Town of Spring Lake implements the following State post-construction program requirements, which satisfy the NPDES Phase II MS4 post-construction site runoff control requirements as Qualifying Alternative Programs (QAPs) in the MS4 area(s) where they are implemented.

Table 18: Qualifying Alternative Program(s) for Post-Construction Site Runoff Control Program

State QAP Name	State Requirements	Local Ordinance / Regulatory Mechanism Reference
Water Supply Watershed (WS-IV)	15A NCAC 2B .0620 - .0624	Part II Chapter 42 Sec. 42-139 and 141
Universal Stormwater Management Program	15A NCAC 2H .1020	Part II Chapter 40 Article VII



The Town of Spring Lake has existing requirements other than Qualifying Alternative Program(s) for implementation of the NPDES Phase II MS4 post-construction program requirements. These existing requirements are codified in local ordinance(s), and implementation is further defined in guidance, manuals and/or standard operating procedure(s) as summarized in Table 19 below.

Table 19: Summary of Existing Post-Construction Program Elements

All requirements found in the Town of Spring Lake Ordinances Part 2; Chapter 40- Article XII

https://library.municode.com/nc/spring_lake/codes/code_of_ordinances?nodeId=PTIICOOR_CH40UT_ARTXIIPOCOST

Permit Requirements for Plan Review and Approval	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(a) Authority	Section 40-598	6/11/2007
3.6.3(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	Section 40-598	6/11/2007
3.6.3(b) Plan Review	Section 40-629	6/11/2007
3.6.3(c) O&M Agreement	Section 40-678	6/11/2007
3.6.3(d) O&M Plan	Section 40-678	6/11/2007
3.6.3(e) Deed Restrictions/Covenants	Section 4-656	6/11/2007
3.6.3(f) Access Easements	Section 40-683	6/11/2007
Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(b) Documentation	Section 40-711(d)	6/11/2007
3.6.2(c) Right of Entry	Section 40-711(a)	6/11/2007
3.6.4(a) Pre-CO Inspections	Section 40-537	3/4/2003
3.6.4(b) Compliance with Plans	Section 40-711	6/11/2007
3.6.4(c) Annual SCM Inspections	Section 40-711(a)	6/11/2007
3.6.4(d) Low Density Inspections	Section 40-656	6/11/2007
3.6.4(e) Qualified Professional	Section 40-435	3/4/2003
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.6(a) Pet Waste	Sections 40-445 (3) and 40-468	3/4/2003
3.6.6(b) On-Site Domestic Wastewater Treatment	NA	

The annual reporting metrics for the post construction program are provided in Table 20: Post Construction Site Runoff Control BMPs below.

Table 20: Post Construction Site Runoff Control BMPs				
Permit Ref.	3.6.5(a), 3.6.5(b), and 4.1.3: Minimum Post-Construction Reporting Requirements Measures to document activities over the course of the fiscal year (July 1 – June 30) including appropriate information to accurately describe progress, status, and results. <i>[These BMPs, measurable goals and annual reporting metrics are required for all post-construction programs and QAPs. Do not edit this BMP.]</i>			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric

Table 20: Post Construction Site Runoff Control BMPs

#.25	Standard Reporting			
	Implement standardized tracking, documentation, inspections and reporting mechanisms to compile appropriate data for the annual self-assessment process. Data shall be provided for each Post-Construction/Qualifying Alternative Program being implemented as listed in Tables 18 and 19.	1. Track number of low density and high density plan reviews performed.	1. Continuously Permit Years 1-5	1. Number of plan reviews performed for low density and high density.
		2. Track number of low density and high density plans approved.	2. Continuously Permit Years 1-5	2. Number of plan approvals issued for low density and high density.
		3. Maintain a current inventory of low density projects and constructed SCMs including SCM type or low density acreage, location and last inspection date.	3. Continuously Permit Years 1-5	3. Summary of number and type of SCMs added to the inventory; and number and acreage of low density projects constructed.
		4. Track number of SCM inspections performed.	4. Continuously Permit Years 1-5	4. Number of SCM inspections.
		5. Track number of low density inspections performed.	5. Continuously Permit Years 1-5	5. Number of low density projects inspected.
		6. Track number and type of enforcement actions taken.	6. Continuously Permit Years 1-5	6. Number of enforcement actions issued.
Permit Ref.	2.3 and 3.6: Qualifying Alternative Program(s) Measures to develop, implement and enforce additional BMPs in order to comply with the QAP state program requirements.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.26	The QAP requirements are fully met by the existing QAP for post-construction, see references provided in Table 18.			
Permit Ref.	3.6.2: Legal Authority Measures to maintain adequate legal authorities through ordinance or other regulatory mechanism to: (a) review designs and proposals for new development and redevelopment to determine whether adequate stormwater control measures will be installed, implemented, and maintained, (b) request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Stormwater Management Program, and (c) enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance with the Post-Construction Stormwater Management Program			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.27	The QAP requirements are fully met by the existing QAP for post-construction, see references provided in Table 18.			

Table 20: Post Construction Site Runoff Control BMPs

Permit Ref.	3.6.3: Plan Review and Approval Measures to maintain plan review and approval authority, standards and procedures to: (a) Require Federal, State, and local government projects to comply with Post-Construction Program requirements throughout the entire MS4 permitted area, unless the entity is subject to its own NPDES MS4 permit or a qualifying alternative program, (b) Conduct site plan reviews of all new development and redeveloped sites that disturb greater than or equal to one acre, and sites that disturb less than one acre that are part of a larger common plan of development or sale for compliance with 15A NCAC 02H .1017 and the qualifying alternative programs that apply within your jurisdiction, (c) Ensure that each project has an Operation and Maintenance Agreement that complies with 15A NCAC 02H .1050(12), (d) Ensure that each project has an Operation and Maintenance Plan that complies with 15A NCAC 02H .1050(13), (e) Ensure that each project has recorded deed restrictions and protective covenants, that require the project to be maintained consistent with approved plans, and (f) Ensure that each SCM and associated maintenance accesses be protected in a permanent recorded easement per 15A NCAC 02H 1050 (9) and (10).			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.28	The QAP requirements are fully met by the existing QAP for post-construction, see references provided in Table 18.			
Permit Ref.	3.6.4: Inspections and Enforcement Measures to maintain inspection and enforcement authority, standards and procedures to: (a) Conduct post-construction inspections prior to issuing a Certificate of Occupancy or a Temporary Certificate of Occupancy. Alternatively, the project owner may provide a surety bond to guarantee compliance with the approved plan(s), (b) Ensure that the project has been constructed in accordance with the approved plan(s), (c) Ensure annual inspection of each permitted SCM to ensure compliance with the approved Operation and Maintenance Agreement, (d) Ensure inspection of low density projects at least once during the permit term, and (e) Require that inspections be conducted by a qualified professional			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.29	The QAP requirements are fully met by the existing QAP for post-construction, see references provided in Table 18.			
Permit Ref.	3.6.5: Fecal Coliform Reduction Measures to control, to the maximum extent practicable, sources of fecal coliform per 15A NCAC 02H .1017(7). At a minimum, the program shall include: (a) A pet waste management component, which may be achieved by revising an existing litter ordinance, and (b) An on-site domestic wastewater treatment system component, if applicable, which may be coordinated with local county health department, to ensure proper operation and maintenance of such systems			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.30	The QAP requirements are fully met by the existing QAP for post-construction, see references provided in Table 18.			

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Spring Lake municipal facilities and operations. Pollution prevention and good housekeeping is accomplished through the implementation of seven required programs, which collectively address the ultimate goal of preventing or reducing pollutant runoff from municipal operations such as parks and open space maintenance, fleet and building maintenance, new construction and land disturbances, and municipal storm sewer system maintenance.

Pollution prevention and good housekeeping for municipal operations includes the following programs:

1. Municipal Facilities Operation and Maintenance Program
2. Spill Response Program
3. MS4 Operation and Maintenance Program
4. Municipal SCM Operation and Maintenance Program
5. Pesticide, Herbicide and Fertilizer Management Program
6. Vehicle and Equipment Maintenance Program
7. Pavement Management Program

The Town of Spring Lake will manage, implement, and report the pollution prevention and good housekeeping BMPs as specified in Table 21 below for each required program.

Table 21: Pollution Prevention and Good Housekeeping BMPs				
Permit Ref.	3.7.1: Municipal Facilities Operation and Maintenance Program Measures to manage facilities that are owned and operated by the permittee and have the potential for generating polluted stormwater runoff. The permittee shall maintain a current inventory of municipal facilities; perform facility inspections and routine maintenance; establish specific frequencies, schedules, and standard documentation; provide staff training on general stormwater awareness and implementing pollution prevention and good housekeeping practices.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.31	Facility Inventory and Inspection			
	Stormwater Administrator will keep an accurate inventory of town owned facilities and inspect them for compliance with Stormwater Ordinances at least once in every permit cycle	1. accurate inventory	1.continuously	1. yes/no
		2. inspection schedule	2.continuously	2. # inspections
#.32	O&M plan for each facility			
	Provide each facility with an O&M and SOP plan that is tailored to operations in each building	1. # facilities	1. continuously	1. yes/no

Table 21: Pollution Prevention and Good Housekeeping BMPs

Permit Ref.	3.7.2: Spill Response Program Measures for facilities and operations that store and/or use materials that have the potential to contaminate stormwater runoff if spilled. The permittee shall maintain written spill response procedures and train staff on spill response procedures.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.33	Spill Response plan on file at each facility			
	Spill Response plan customized to each facility (vehicle maintenance, FD, PD, WWTP, etc.) will be kept on each site	1. plans on site	1. continuously	1. yes/no
#.34	Major Spill response team			
	Spill Response team will be identified in response plan, to include state and municipal phone numbers. The SLFD is the first responder to all spills	1. list on site	1. continuously	1. yes/no
Permit Ref.	3.7.3: MS4 Operation and Maintenance Program Measures to minimize pollutants in the stormwater collection system. The permittee shall provide operation and maintenance staff training on stormwater awareness and pollution prevention, perform MS4 inspections, maintain the collection system including catch basins and conveyances; and establish specific frequencies, schedules, and standard documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.35	MS4 Administrator O&M Program Plan			
	The Stormwater administrator will have on file a Standard Operation Procedure Manual to include the O&M Program requirements to reference at any time. This will provide a continuity document that will endure for the life of the program	1. manual on file and current	1. annual evaluation	1. yes/no
#.36	Outfall and Basin inspection			
	SWA will inspect at least 20% of all town-owned outfalls and drainage basins per year of the permit cycle for 100% inspection every five years	1. inspection schedule	1. annually	1. number inspected
		2. damage reports inspected	2. continuously	2. yes/no
Permit Ref.	3.7.4: Municipal SCM Operation and Maintenance Program Measures to manage municipally-owned, operated, and/or maintained structural stormwater control measures (SCMs) that are installed for compliance with the permittee’s post-construction program. The permittee shall maintain a current inventory of SCMs, perform SCM inspections and maintenance, and shall establish specific frequencies, schedules, and documentation.			
	A	B	C	D

Table 21: Pollution Prevention and Good Housekeeping BMPs

BMP No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.37	There are no town owned SCMs at this time			
Permit Ref.	3.7.5: Pesticide, Herbicide and Fertilizer Management Program Measures to minimize water quality impacts from the use of landscape chemicals. The permittee shall provide routine pollution prevention and chemical use, storage and handling training, and shall ensure compliance with permits and applicator certifications.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.38	Pesticide inventory			
	Track storage and usage location and amounts town owned pesticides and equipment	1. list storage areas	1. continuously	1. yes/no
		2.list yearly usage	2.annual	2.yes/no
#.39	Pesticide applicators			
	Maintain list of current municipal applicators, their types of permits, and their permit due dates	1. permits current	1. continuously	1. yes/no
		2.list of applicators	2.continuously	2.yes/no
Permit Ref.	3.7.6: Vehicle and Equipment Maintenance Program Measures to prevent and minimize contamination of stormwater runoff from areas used for municipal vehicle and equipment maintenance and/or cleaning. The permittee shall ensure that municipal industrial facilities subject to NPDES industrial permitting comply with those permit requirements, provide routine pollution prevention training to staff, perform routine inspections, and establish specific frequencies, schedules, and documentation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.40	Inspection and spills reported			
	Conduct annual inspections to ensure facility is not a source of illicit discharge from vehicles being repaired, cleaned, or stored	1. spill tracking	1. continuously	1. # spills reported
		2.spill response plans and O&M plans displayed	2.annual	2.yes/no
Permit Ref.	3.7.7: Pavement Management Program Measures to reduce pollutants in stormwater runoff from municipally-owned streets, roads, and parking lots within the permittee’s corporate limits. The permittee shall implement measures to control litter, leaves, debris, particulate and fluid pollutants associated with vehicles, and establish specific frequencies, schedules, and documentation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.41	Street Sweeper			
	Street sweeper run regularly to pick up debris in curb lines and drainage basins	1. schedule and hours run	1. continuously	1. # hours run
		2.tons of debris picked up and sent to landfill	2.annually	2. # tons debris disposed of

Table 21: Pollution Prevention and Good Housekeeping BMPs

#.42	Basin cleaning and inspection			
	SWA will inspect and/or clean basins in neighborhoods on a rotating basis. Will also clean and/or educate in response to specific reports	1. inspect on an established schedule 2. reports responded to	1. at least every 8 weeks 2. continuously	1. # times a year cleaned 2. # reports outside of cleaning schedule