

Stormwater Management Plan
Town of Stallings
NCS000454

March 13, 2023



Table of Contents

PART 1: INTRODUCTION.....	1
PART 2: CERTIFICATION.....	2
PART 3: MS4 INFORMATION	3
3.1 Permitted MS4 Area.....	3
3.2 Existing MS4 Mapping	4
3.3 Receiving Waters	4
3.4 MS4 Interconnection	5
3.5 Total Maximum Daily Loads (TMDLs).....	5
3.6 Endangered and Threatened Species and Critical Habitat.....	5
3.7 Industrial Facility Discharges.....	5
3.8 Non-Stormwater Discharges	6
3.9 Target Pollutants and Sources	7
PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION	8
4.1 Organizational Structure.....	8
4.2 Program Funding and Budget.....	9
4.3 Shared Responsibility.....	10
4.4 Co-Permittees	10
4.5 Measurable Goals for Program Administration.....	11
PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM.....	12
PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM	16
PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM	17
PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM.....	21
PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM.....	23
PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS.....	27

List of Tables

- Table 1: Summary of MS4 Mapping
- Table 2: Summary of MS4 Receiving Waters
- Table 3: Summary of Approved TMDLs
- Table 4: Summary of Federally Listed Species/Habitat Impacted by Surface Water Quality
- Table 5: NPDES Stormwater Permitted Industrial Facilities
- Table 6: Non-Stormwater Discharges
- Table 7: Summary of Target Pollutants and Sources
- Table 8: Summary of Responsible Parties
- Table 9: Shared Responsibilities
- Table 10: Co-Permittee Contact Information
- Table 11: Program Administration BMPs
- Table 12: Summary of Target Pollutants & Audiences
- Table 13: Public Education and Outreach BMPs
- Table 14: Public Involvement and Participation BMPs
- Table 15: Illicit Discharge Detection and Elimination BMPs
- Table 16: Qualifying Alternative Program Components for Construction Site Runoff Control Program
- Table 17: Construction Site Runoff Control BMPs
- Table 18: Qualifying Alternative Program(s) for Post-Construction Site Runoff Control Program
- Table 19: Summary of Existing Post-Construction Program Elements
- Table 20: Post Construction Site Runoff Control BMPs
- Table 21: Pollution Prevention and Good Housekeeping BMPs

PART 1: INTRODUCTION

The purpose of this Stormwater Management Plan (SWMP) is to establish and define the means by which the Town of Stallings 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 Stallings 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 NCS000454, 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 Stallings and located within the corporate limits of the Town of Stallings.

In preparing this SWMP, the Town of Stallings 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.

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.

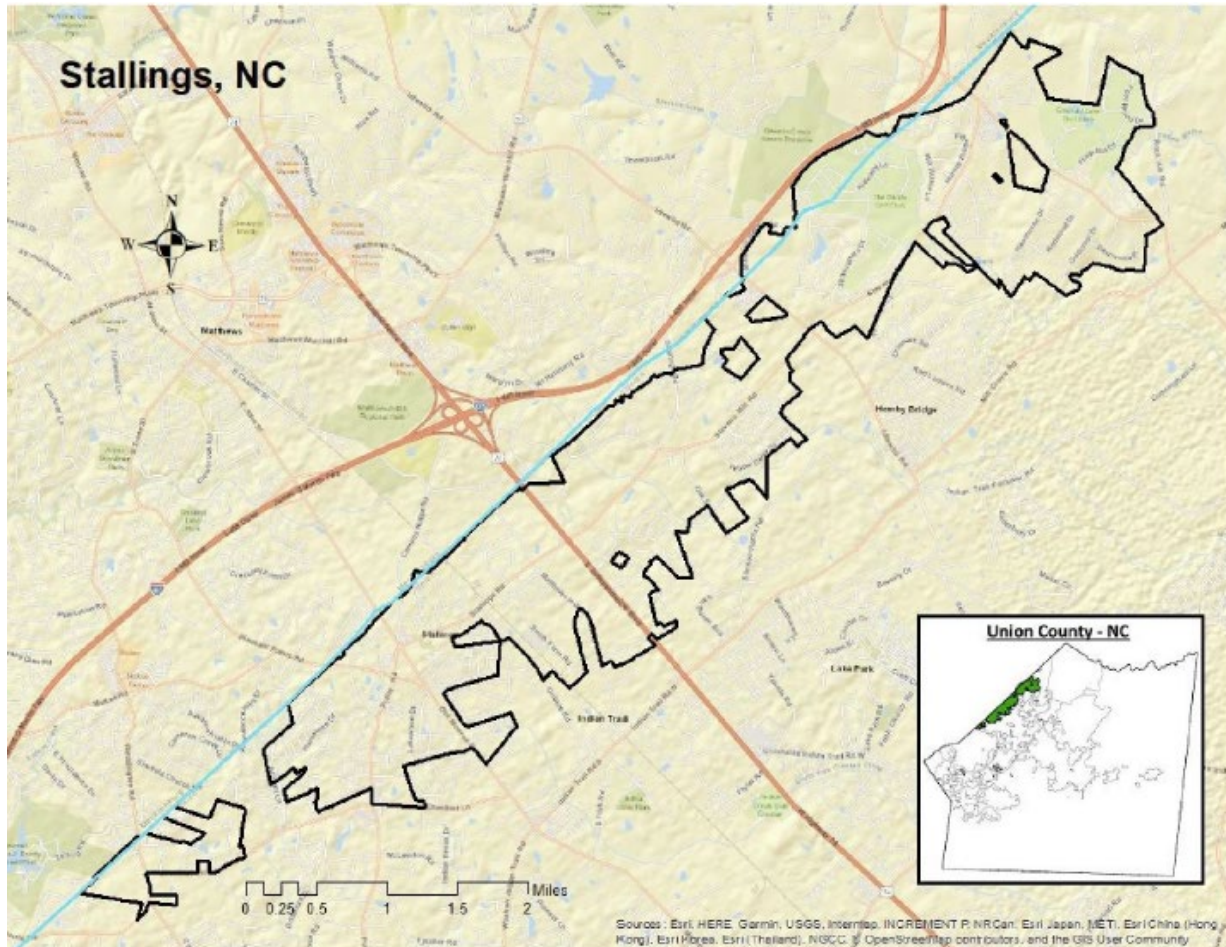
A specific position having overall responsibility for stormwater matters.

<i>Signature:</i>	<i>Kevin Parker</i>
<i>Print Name:</i>	Kevin Parker
<i>Title:</i>	Engineeing Director
Signed this 13th day of March, 2023	

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

The current MS4 mapping includes stormwater inflows, stormwater manholes, stormwater junction boxes, culvert drain pipes and stormwater discharges. However, previously unmapped stormwater infrastructure is still occasionally discovered. Stormwater inflows include information on material, diameter/box size, depth, and ground cover. Culvert drain pipes include information on diameter, box size, material, ground cover, and length. Stormwater discharges include information on material, diameter/box size, ground cover, and the receiving stream. The stormwater discharges mapped include outfalls, but specific classification of major outfalls versus all other points of discharge has not occurred.

Table 1: Summary of MS4 Mapping

Percent of MS4 Area Mapped	80	%
No. of Major Outfalls* Mapped	unknown**	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.

** Outfalls have been mapped but the classification of specific outfalls as major outfalls has not occurred, therefore the number of major outfalls is unknown at this time.

3.3 Receiving Waters

The Town of Stallings MS4 is located within the Catawba and the Yadkin Pee-Dee River Basins 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:

- o [Waterbody Map](#)
- o [Impaired Waters and TMDL Map](#)
- o 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
Six Mile Creek	11-138-3	C	Fish Community (Nar, AL, FW)
West Fork Twelve Mile Creek	11-138-1	C	
Davis Mine Creek	11-138-2-2-1	C	
South Fork Crooked Creek	13-17-20-2	C	Benthos (Nar, AL, FW) Fish Community (Nar, AL, FW)
North Fork Crooked Creek	13-17-20-1	C	Benthos (Nar, AL, FW)
Goose Creek	13-17-18	C	
Paddle Branch	13-17-18-2	C	

3.4 MS4 Interconnection

The Town of Stallings MS4 is not interconnected with another regulated MS4 and directly discharges to the receiving waters as listed in Table 2 above.

3.5 Total Maximum Daily Loads (TMDLs)

The TMDL(s) listed in Table 3 below have been approved within the MS4 area, as determined by the map and list provided on the [NCDEO Modeling & Assessment Unit web page](#). The table also indicates whether the approved TMDL has a specific stormwater Waste Load Allocation (WLA) for any watershed directly receiving discharges from the permitted MS4, and whether a Water Quality Recovery Program has been implemented to address the WLA.

Table 3: Summary of Approved TMDLs

Water Body Name	TMDL Pollutant(s) of Concern	Stormwater Waste Load Allocation (YIN)	Water Quality Recovery Program (YIN)
Goose Creek	Fecal Coliform	N	y

The Division will approve stormwater drainage plans in this basin.

3.6 Endangered and Threatened Species and Critical Habitat

Significant populations of threatened or endangered species and/or critical habitat are identified within the regulated MS4 urbanized area, as determined by 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](#). 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: Summary of Federally Listed Species/Habitat Impacted by Surface Water Quality

Scientific Name	Common name	Species Group	Federal Listing Status
<i>Lasmi ona decorata</i>	Carolina Heelspliter	Invertebrate	E

3.7 Industrial Facility Discharges

The Town of Stallings MS4 jurisdictional area includes the following industrial facilities which hold NPDES Industrial Stormwater Permits, as determined from the NCDEQ [Active NPDES Stormwater Permit List](#) and/or [Active Stormwater Permits Map](#).

Table 5: NPDES Stormwater Permitted Industrial Facilities

Permit Number	Facility Name
NCG140039	Concrete Supply Co LLC
NCG140163	Southern Concrete Materials
NCG050404	Barry Global

3.8 Non-Stormwater Discharges

The water quality impacts of non-stormwater discharges have been evaluated by the Town of Stallings as summarized in Table 6 below. The unpermitted non-stormwater flows listed as incidental do not significantly impact water quality. The Town of Stallings has evaluated residential and charity car washing for possible significant water quality impacts. Street cleaning is performed with a dry street sweeping process so street washing discharges are not relevant to the MS4.

The Division has not required that other non-stormwater flows be specifically controlled by the Town of Stallings.

Wash water associated with car washing that does not contain detergents or does not discharge directly into the MS4 is considered incidental. However, these types of non-stormwater discharges that do contain detergents have been evaluated by the Town of Stallings to determine whether they may significantly impact water quality. They were determined to be a possible cause of water quality impacts and will be addressed through public education efforts.

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	<i>N/A</i>
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the Town of Stallings not aware of other significant water quality issues within the permitted MS4 area.

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 Stallings has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts. The schools were selected as a target audience due to the opportunity to affect positive change through education and involvement opportunities. Homeowners and businesses were identified as target audiences because they are likely sources on non-point pollution through uniformed management practices.

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	Residential, commercial, schools	Public Education & Outreach, Public Involvement & Participation
Yard Waste (leaves and grass clippings)	Residential, commercial	Public Education & Outreach, Pollution Prevention & Good Housekeeping
Sediment	Construction	Construction Site Runoff Control
Nutrients	Sewer overflows, failing septic systems, urbanization, schools	Public Education & Outreach, Illicit Discharge Detection & Elimination, Construction Site Runoff Control, Post Construction Site Runoff Control, Pollution Prevention & Good Housekeeping
Fecal coliform	Sewer overflows, failing septic systems, wildlife, illicit discharges	Public Education & Outreach, Illicit Discharge Detection & Elimination
Mercury/statewide TMDL	Atmospheric deposition	Public Education & Outreach (fish consumption advisory)
Illicit discharges	Residential, commercial, industrial, municipal staff	Public Education & Outreach, Illicit Discharge Detection & Elimination,
Illegal dumping	Residential, commercial, industrial, municipal staff	Public Education & Outreach, Pollution Prevention & Good Housekeeping
Improper disposal of waste	Residential, commercial, industrial, municipal staff	Public Education & Outreach, Public Involvement & Participation, Pollution Prevention & Good Housekeeping
General non-point source pollution	Residential, commercial, schools, municipal staff	Public Education & Outreach

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Town of Stallings stormwater program is implemented in partnership with the Engineering and Public Works departments. The Engineering department is responsible for the public outreach and involvement components, as well as engineering plan reviews; while the Public Works department is responsible for good housekeeping and municipal pollution prevention activities, storm sewer system maintenance and IDDE. The Town Engineer is designated as the Stormwater Program Administrator.

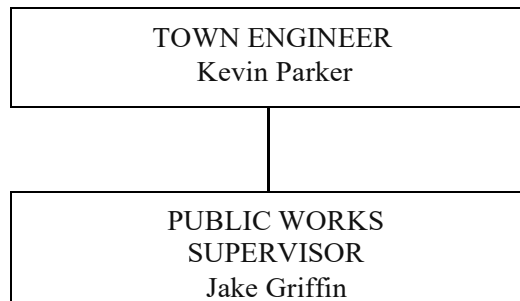


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Town Engineer	Kevin Parker	Engineering
SWMP Management	Town Engineer	Kevin Parker	Engineering
Public Education & Outreach	Town Engineer	Kevin Parker	Engineering
Public Involvement & Participation	Town Engineer	Kevin Parker	Engineering
Illicit Discharge Detection & Elimination	Town Engineer	Kevin Parker	Engineering
Construction Site Runoff Control	Town Engineer	Kevin Parker	Engineering
Post-Construction Stormwater Management	Town Engineer	Kevin Parker	Engineering

Pollution Prevention/Good Housekeeping for Municipal Operations	Public Works Supervisor	Jake Griffin	Public Works
Municipal Facilities Operation & Maintenance Program	Public Works Supervisor	Jake Griffin	Public Works
Spill Response Program	Town Engineer	Kevin Parker	Engineering
MS4 Operation & Maintenance Program	Town Engineer	Kevin Parker	Engineering
Municipal SCM Operation & Maintenance Program	Town Engineer	Kevin Parker	Engineering
Pesticide, Herbicide & Fertilizer Management Program	Public Works Supervisor	Jake Griffin	Public Works
Vehicle & Equipment Cleaning Program	Public Works Supervisor	Jake Griffin	Public Works
Pavement Management Program	Town Engineer	Kevin Parker	Engineering
Total Maximum Daily Load (TMDL) Requirements	Town Engineer	Kevin Parker	Engineering

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Stallings 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.

The Town operates a stormwater utility fund as an enterprise fund. Revenues come from stormwater fees charged on properties and the Town uses these funds to maintain/improve the Town's public stormwater system. \$46 per lot for residential and \$33 per ERU for commercial properties which generates over \$500,000 in revenue annually.

4.3 Shared Responsibility

The Town of Stallings 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 Stallings 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 Stallings 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 (YIN)
3.2 Outreach to Targeted Audiences, 3.3.2 Volunteer Opportunities	Regional Stormwater Partnership of the Carolinas	Y

4.4 Co-Permittees

There are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000454 for the Town of Stallings. 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 (YIN)
N/A			

4.5 Measurable Goals for Program Administration

The Town of Stallings 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.	2.1.1 Program Management The permittee shall maintain adequate funding and staffing to implement and manage the provisions of the SWMP and meet all requirements of this permit.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
1.	Annual Self-Assessment			
	Provide a documented analysis to confirm that the program is adequately funded and staffed.	Prepare and analyze the budget every that includes the necessary staff and materials to achieve each component of the program	1. Annually Permit Years 1-5	1. Adequate/Inadequate
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
1.	Annual Self-Assessment			
	Evaluate the 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.	Prepare, conduct, and document an annual evaluation of the program components.	1. Annually Permit Years 1-5	1. Yes/No
Permit Ref.	2.2.2: Minimum Control Measures The Permittee shall maintain, and make available to the Division upon request, written procedures for implementing the six minimum control measures. Written procedures shall identify specific action steps, schedules, resources, and responsibilities for implementing the MCMs. Written procedures can be free standing or, where appropriate, integrated into the Stormwater Management Plan.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
1.	Establishment and Annual Self-Assessment			
	Ensure written procedures for the minimum control	1. Create and establish all required written procedures.	1. Permit Year 1	1. Yes/No

	measures, in accordance with 40 CFR §122.34(b), are established and updated as needed.	2. Review all written programs and update as-needed	2. Permit years 2-5	2. Yes/No
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. 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.	2. Permit Year 5	2. Date of permit renewal application submittal

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of Stallings 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 Stallings 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)
Litter	Residential, commercial, schools
Yard Waste	Residential, commercial, municipal staff
Sediment	Construction
Nutrients	Residential, commercial, schools
Fecal coliform	Residential, commercial, schools
Mercury/statewide TMDL	Residential, commercial
Illicit Discharges	Residential, commercial, industrial, municipal staff
Illegal Dumping	Residential, commercial, industrial, municipal staff
Improper Disposal of Waste	Residential, commercial, industrial, municipal staff
General non-point source pollution	Residential, commercial, schools, municipal staff

Stallings Fest held by the Parks and Recreation Department will be used as a platform for stormwater outreach and education. The Town will utilize a stormwater web page, use social media, and leverage the partnership with Regional Stormwater Partnership of the Carolinas to engage the public. The Town of Stallings will manage, implement, and report the following public education and outreach BMPs.

Table 13: Public Education and Outreach BMPs

BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
Permit Ref.	3.2.: 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.			
3.	Partnership with Regional Stormwater Partnership of the Carolinas			
	The Town will engage with the (RSPC) to develop Education and Outreach Initiatives that will be administered by RSPC. Initiatives will focus on residential, commercial, and school audiences within the MS4 area.	1. Utilize advertising provided by the agreement.	1. Annually	3. Yes/no
		2. Submit a partnership plan detailing specific commitment.	2. Permit year 1	2. Yes/No
		3. Monitor activities to ensure partnership commitments are met	3. Annually	3. Yes/no
		4. Agreement with RSPC will be reviewed to ensure compliance with all requirements outlined in 3.2 of the Permit.	4. Annually	4. Yes/No
4.	Town Sponsored Event or Festival			
	The Town will distribute information on stormwater during at least one Town sponsored event such as Stallings Fest.	1. Develop or identify one informational handout for distribution at the event that covers litter, nutrients, and nonpoint source pollution (including car washing)	1. Permit year 1	1. Yes/No

		2. Train municipal staff to man a stormwater booth during the event and distribute the abovementioned flyers as well as information about leaky septic systems, illicit discharges/improper disposal of waste	2. Permit year 1	2. Report the number of staff members trained
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Table 13: Public Education and Outreach BMPs

		3. Man a booth at the one event/festival chosen and document the number of handouts distributed	3. Annually	3. Report the chosen event and number of handouts distributed at event
5.	Social Media Campaign			
	The Town's existing Facebook account will be used to reach the residential target audience and share information related to stormwater issues, with a minimum of one post per year.	1. Post about keeping yard waste and litter out of storm drains, reducing fertilizer runoff, car washing, illicit discharge/dumping, and stopping vehicle leaks.	1. Annually	1. Yes/No & Date of Post
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.	Stormwater Page on Town Website			
	The web page will provide information on the Town's	1. Establish the stormwater web page	1. Permit year 1	1. Yes/No

	stormwater program, including the permit, SWMP, applicable ordinances, and annual reports. The web page will also include a stormwater issue reporting mechanism, educational materials developed by the Town, and links to additional stormwater educational resources.	2. Maintain the webpage - update any broken links, upload new educational material, upload most recent SWMP	2. Annually, once established	2. Yes/No
Permit Ref.	3.2.5: Stormwater Hotline Measures for a stormwater hotline/helpline for the purpose of public education and outreach.			

Table 13: Public Education and Outreach BMPs				
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
7.	Stormwater Hotline			
	A hotline will be maintained for citizens to ask stormwater questions and report issues	1. Establish and maintain hotline phone number and responsible party	1. Permit Year 1	1. Yes/No
		2. Train a responsible party to answer stormwater reporting mechanisms.	2. Permit Year 1	2. Yes/No
		3. Maintain stormwater hotline and responsible party.	2. Annually	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 Stallings 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
8.	Stormwater Advisory Committee			
	Town staff will bring stormwater issues before the planning commission to receive citizen input and factor stormwater into development decisions.	1. Minimum twice a year, include a monthly agenda item for Town staff to report on stormwater concerns and receive input from the committee.	1. Semi-Annually	1. Yes/No
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
9.	Annual Town-Wide Clean-Up Event			
	As part of the annual Town-wide clean-up event, organize volunteers to pick up trash or clean litter from public areas with potential to pollute stormwater.	1. Identify public areas that could be cleaned by volunteers.	1. Annually	1. Yes/No
		2. Coordinate clean-up of public areas	2. Annually	2. Report the number of participants and amount of trash bags filled

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Town of Stallings 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
10.	Addition of Major Outfalls to MS4 Map			
	The MS4 map will be completed through GIS analysis of existing data. Major outfalls will be identified and numbered, and flow directions and receiving waters will be added.	1. Add a layer identifying major outfalls to the map and number	1. Permit year 2	1. Number of major outfalls identified
		2. Add flow directions to the map	2. Permit year 1, continue to completion	2. Yes/No/Completed
		3. Add receiving waters to the map	3. Permit year 1, continue to completion	3. Yes/No/Completed
11.	Continual Updates to MS4 Map			
	The MS4 map will be continuously updated for completeness.	1. When new conveyances and outfalls are located or constructed add them to the map.	1. As development occurs	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
12.	Maintain Legal Authority			

Table 15: Illicit Discharge Detection and Elimination BMPs

	Review existing ordinance to maintain the legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping and spills into the MS4, including enforcement procedures and actions. Update ordinance if required.	1. Review ordinance and update if revision is required to maintain legal authority	1. Annually	1. Report if a revision is required and if a revision is made
Permit Ref.	<p>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:</p> <ul 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
13.	Outfall Inspections			
	Perform regular dry weather (no rain in previous 72 hours) outfall inspections to proactively identify illicit discharges and illicit connections.	1. Train inspections staff to perform dry weather outfall inspections and illicit discharge investigations.	1. Permit year 1	1. Yes/No
		2. Create schedule for performing dry weather outfall inspection	2. Permit Year 1	2. Provide Schedule of Outfall Inspections (number per year)
3. Perform dry weather outfall inspections in accordance with inspection schedule.		3. Annually	3. Number of Inspections	

14.	Illicit Discharge Identification Procedure			
	Maintain a standard operating procedure (SOP) for investigation of potential illicit discharges, illicit connections, and illegal dumping	Revise the IDDE program from the previous SWMP to develop a SOP for investigating potential illicit discharges and connections	1. Permit year 1	1. Yes/No
		2. Maintain a written IDDE program.	2. Annually	2. 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.			

Table 15: Illicit Discharge Detection and Elimination BMPs				
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
15.	Database Tracking System			
	A tracking system for observed IDDE violations and follow-on actions will be developed and implemented to identify "hot-spot" areas, chronic violators, and recurring issues	1. Develop a "Potential Illicit Discharge Report" form to include observed illicit discharge indicators, date, location, and contacts made	1. Permit year 1	1. Yes/no
		2. Develop a tracking spreadsheet to collect data from "Potential Illicit Discharge Report" as well as the results of the investigation, any follow-up, date of closure, and enforcement actions taken	2. Permit year 1	2. 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.			
	A	B	C	D

BMP No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
16.	Staff Training			
	Develop a program to educate Town staff of indicators of potential illicit discharges/connections and illegal dumping and the appropriate avenues through which to report suspected illicit discharge.	1. Identify or develop staff training program for public works employees	1. Permit year 1	1. Yes/no
		2. Train staff with Illicit Discharge & Detection responsibilities or the potential to discover an illicit discharge during routine work activities	2. Permit year 2	2. Number of attendees
		3. Identify and train appropriate staff with Illicit Discharge and Detection responsibilities how to track source(s) of illicit discharge(s) and how to eliminate illicit discharge(s).	3. Permit year 2	3. Number of attendees.

Table 15: Illicit Discharge Detection and Elimination BMPs				
		3. Train new staff that will be part of the IDDE program.	3. Annually, beginning in permit year 3	3. Number of attendees.
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
17.	Stormwater Hotline			
	A hotline will be maintained for citizens to ask stormwater questions and report issues	1. Establish and maintain hotline phone number and responsible party	1. Permit Year 1	1. Yes/No
		2. Train a responsible party to answer stormwater reporting mechanisms.	2. Permit Year 1	2. Yes/No
		3. Maintain stormwater hotline and responsible party.	2. Annually	2. Yes/No

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with ISA NCAC 02H .0153, the Town of Stallings relies upon the North Carolina Sedimentation Pollution Control Act (SPCA) of 1973 and the NCG0I0000 permit for construction activities as qualifying alternative programs to meet the NPDES MS4 Permit requirements for all construction site runoff control measures to reduce pollutants in stormwater runoff from construction activities that result in land disturbance of greater than or equal to one acre and any construction activity that is part of a larger common plan of development that would disturb one acre or more.

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

Permit Reference	State or Local Program Name	Legal Authority	Implementing Entity	Meets Whole or Part of Requirement
3.5.1 - 3.5.4	State Implemented SPCA Program	15ANCAC Chapter 04	NCDEQ	Whole

The Town of Stallings 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
18.	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.	1. Train municipal staff on proper handling of construction site runoff control complaints.	1. Permit year 2 and new hires.	1. Report number of staff trained.
19.	Stormwater Hotline			
	A hotline will be maintained for citizens to ask stormwater questions and report issues	1. Establish and maintain hotline phone number and responsible party	1. Permit Year 1	1. Yes/No
		2. Train a responsible party to answer stormwater reporting mechanisms.	2. Permit Year 1	2. Yes/No
		3. Maintain stormwater hotline and responsible party.	2. Annually	2. Yes/No
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
20.	Establish and Maintain Legal Authority			

Table 17: Construction Site Runoff Control BMPs				
	Develop and implement an ordinance to require construction site operators to control waste.	1. Pass code	1. Permit year 1	1. Yes/no
		2. Maintain legal authority	2. Continuously, after ordinance is adopted	2. Yes/no

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 Stallings 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 Stallings 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
None	NIA	NIA

The Town of Stallings 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)

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.S(a), 3.6.S(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.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
21.	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	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	2. Number of plan approvals issued for low density and high density.	

Table 20: Post Construction Site Runoff Control BMPs

		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	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	4. Number of SCM inspections.
		5. Track number of low density inspections performed.	5. Continuously	5. Number of low density inspections.
		6. Track number and type of enforcement actions taken.	6. Continuously	6. Number and type of enforcement actions taken.
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
	This permit requirement is fully met by the existing post-construction program			
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).			
	A	B	C	D

BMP No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
22.	Revisions to Code of Ordinances			

Table 20: Post Construction Site Runoff Control BMPs

	Revise existing ordinance to specifically require compliance by Federal, State, and Local government projects and revise reference to stormwater design manual to specify NCDEQ Stormwater Design manual.	1. Revise ordinance to require Federal, State, and local government projects to comply with post construction requirements unless subject to its own NPDES MS4 permit	1. Permit year 2	1. Yes/No
		2. Revise ordinance to specify NCDEQ Stormwater Design Manual as the reference stormwater design manual	2. Permit year 2	2. Yes/No
23.	Operations and Maintenance Plan			
	Add an ordinance to the Town code requiring each stormwater control measure to have an Operation and Maintenance Plan that complies with 15A NCAC 02H .1050(13)	1. Establish legal authority through code revision.	1. Permit year 2	1. Yes/No
		2. Enforcement of new code by requiring approval of O&M Plan by Stormwater Administrator prior to plan approval.	2. Continuously, after ordinance is adopted..	2. Yes/No
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
24.	Inspection of low-density projects			
	Establish the legal authority for inspection of low-density projects at least once during the permit	1. Establish legal authority through ordinance revision	1. Permit year 2	1. Yes/No

term; and carry out the inspections.	2. Conduct inspections of low-density projects each year	2. Track number of low density inspections performed.	2. Number of Inspections
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Table 20: Post Construction Site Runoff Control BMPs

Permit Ref.	3.6.6: 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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
	This permit requirement is fully met by the existing post-construction program			

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Stallings 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 Stallings 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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
25.	Inventory of Municipal Facilities			
	Develop and maintain an up-to-date inventory of municipal	1. Compile list of existing Town-owned facilities	1. Permit year 1	1. Yes/No
		2. Annual inspections of Town-owned facilities identified by BMP 25.1	1. Annually	2. Yes/No

Table 21: Pollution Prevention and Good Housekeeping BMPs

	facilities with potential to generate polluted runoff	2. Perform initial inspection of facilities for potential to generate polluted runoff or requiring spill response procedures. Classify facilities as having high or low potential for stormwater pollution	2. Permit year 2.	2. Yes/No
		3. Update inventory as needed when facilities are added or closed	3. As required	3. Yes/No
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
26.	Inventory of facilities with Spill potential			
	Maintain a list of Town facilities and operations storing materials that would be a pollutant if spilled and introduced to the stormwater system and classify by hazard and quantity	1. Update list of Town facilities and operations with spill potential when facilities or operations are changed	1. When necessitated by changes in facilities or operations	1. Yes/No
27.	Spill Response Procedures			
	Maintain spill response procedures and continue training of appropriate staff.	1. Review general spill response procedures	1. Permit year 1	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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
28.	Staff Training			

Table 21: Pollution Prevention and Good Housekeeping BMPs

	Develop or identify a staff training program for general stormwater pollution prevention and provide to public works department employees	1. Develop or identify appropriate training program	1. 1. Permit year 2	1. 1. Yes/No
29.	MS4 System Inspections and Maintenance			
	Develop and identify procedures and appropriate responsible parties to perform and/or facilitate routine MS4 System inspections and determine appropriate methods for maintenance and/or remediation.	1. Develop a standard operating procedure that includes proactive inspection schedules, standard documentation, staff/party responsibilities, and proper maintenance training	1. Permit year 2	1. Yes/No
		2. Verify, document, and prioritize maintenance activities identified by inspections or citizen reports	2. Continuously, as potential maintenance activities are identified	2. Yes/No
Permit Ref.	3.7.4: Municipal SCM Operation and Maintenance Program Measures to manage municipally-owned, operated, and/or maintained structural 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.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
30.	Inventory of Municipal Structural SCMs			
	Development and maintenance of an inventory of municipally owned structural SCMs.	1. Create an inventory of existing Town-owned SCMs with information including type, year built, date of last inspection, and maintenance actions	1. Annually	1. Yes/No
31.	SCM Inspections and Maintenance			
	Performance and documentation of regular inspection and maintenance of municipally owned structural SCMs. Addition	1. Locate Town-owned SCMs and add them to the MS4 Map with type of SCM indicated	1. Permit year 1	1. Yes/No

Table 21: Pollution Prevention and Good Housekeeping BMPs

	of municipally owned SCMs to MS4 map.	2. Update the map when new Town-owned SCMs are constructed	2. As needed	2. Yes/No/# of new SCMs
		3. Inspect each device using SCM inspection form	3. Annually	3. Yes/No
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
32.	Pesticide, Herbicide, Fertilizer Applicator Training			
	Training of Town staff who apply landscape chemicals in order to minimize water quality impacts from pesticides, herbicides, and fertilizers	1. Develop or identify pollution prevention and chemical use, storage and handling training program	1. Permit year 2	1. Yes/no
		2. Provide staff training in pollution prevention and chemical use, storage and handling training	2. Permit year 3 and new hires	2. Yes/No/ # (New) Staff Trained
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
33.	Vehicle and Equipment Cleaning and Maintenance Facility Inspection			
	Routine inspections as part of general facility inspections to	1. Develop an inspection checklist	1. Permit year 2	1. Yes/no

Table 21: Pollution Prevention and Good Housekeeping BMPs

	ensure proper procedures to minimize water quality impacts from vehicle and equipment cleaning and maintenance are followed.	2. Perform re-inspections of any facility that required corrective action	2. As required by corrective actions issued	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
34.	Street Sweeping			
	Street sweeping following a regular schedule in order to reduce pollutants from Town owned and maintained streets.	1. Develop a standard operating procedure, including a schedule and plan to document	1. Permit year 1	1. Yes/No
		2. Perform street sweeping on 50% of Town-maintained streets.	2. Annually, beginning in permit year 2	2. Yes/No