



NCS000483

STORMWATER MANAGEMENT PLAN

TOWN OF KERNERSVILLE

JULY 16, 2021



PREPARED BY



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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 Kernersville 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 Kernersville 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 NCS000483, 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 Kernersville and located within the corporate limits of the Town of Kernersville.

In preparing this SWMP, the Town of Kernersville 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.

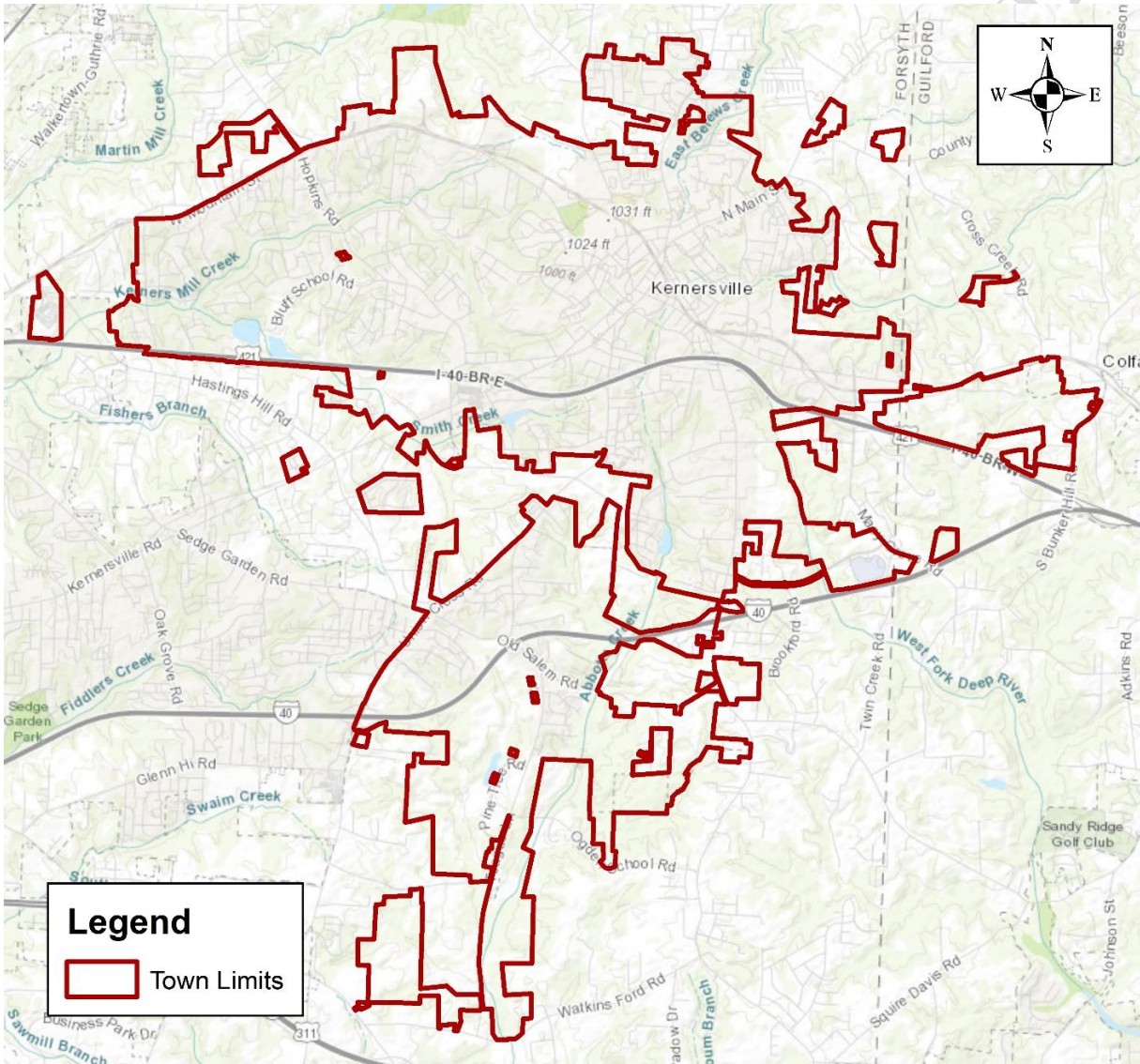
- I am a ranking elected official.
- I am a principal executive officer for the permitted MS4.
- I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (*check one*):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

<i>Signature:</i>	
<i>Print Name:</i>	
<i>Title:</i>	
Signed this <input type="text"/> day of 20 <input type="text"/> .	

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

The current MS4 mapping includes drainage basins, town-owned property, municipal good housekeeping areas, major outfalls, outfall and buffer inspection locations, flow direction, and pipe conditions.

Table 1: Summary of Current MS4 Mapping

Percent of MS4 Area Mapped	95	%
No. of Major Outfalls* Mapped	400	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 \geq 2-acres.*

3.3 Receiving Waters

The Town of Kernersville MS4 is located within the Cape Fear, Roanoke, and 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:

- [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
Cape Fear River Basin			
Reedy Fork Creek	From source to ETJ [16-11-1(a)]	WS-III, NSW	Benthos (Nar, AL, FW) Fish Community (Nar, AL, FW)
Beaver Creek	From source to ETJ [16-11-2]	WS-III, NSW	
West Fork Deep River	From source to ETJ [17-3-(0.3)]	WS-IV	Benthos (Nar, AL, FW) Fish Community (Nar, AL, FW)

Receiving Water Name	Stream Index / AU Number	Water Quality Classification	303(d) Listed Parameter(s) of Interest
Roanoke River Basin			
Belews Creek	From source to a point 0.5 mile upstream of backwaters of Kernersville Lake [22-27-(1)]	WS-IV	
Belews Creek	From a point 0.5 mile upstream of backwaters of Kernersville Lake to Town Limits/ETJ [22-27-(1.5), 22-27-(2)]	WS-IV-CA	
Right Fork Belews Creek (Deans Creek)	From source to Town Limits/ETJ [22-27-3]	C	
East Belews Creek	From source to Town Limits/ETJ [22-27-8-(1)], From backwaters of Belews Lake (Forsyth County SR 2140) to Southern Railroad Bridge [22-27-8-(2)]	B/C	
Hartley Creek	From source to Belews Creek [22-27-4]	C	
Yadkin Pee Dee River Basin			
Kerners Mill Creek	From source to 0.1 mile downstream of Bus. I-40 [12-94-12-2-(0.3)]	WS-III	
Smith Creek	From source to Kerner Mill Creek [12-94-12-2-1]	WS-III	
Fishers Branch	From source to Town Limits/ETJ [12-94-12-2-2-(1)]	WS-III	
Abbotts Creek	From source to Town of Limits/ETJ [12-119-(1)]	WS-III	Fish Community (Nar, AL, FW)

3.4 MS4 Interconnection

The Town of Kernersville MS4 is interconnected with another regulated MS4 and directly receives and discharges stormwater from the NCDOT MS4. The number of interconnections entering the Kernersville MS4 from NCDOT MS4 is 30, as determined using the Town of Kernersville Stormwater GIS inventory, which includes direction of flow for all pipes. Each NCDOT road in Town limits (about 60 miles) was initially traced on paper maps to see where all stormwater discharges and the results were added to the Towns GIS inventory. The Stormwater Monitoring Technician will update the NCDOT/TOK Pipe Interconnection layer during routine infrastructure layer updates and when plans for new development are approved and digitized into the system. The Town does not inspect NCDOT outfalls.

The Town of Kernersville borders the City of High Point and the City of Winston-Salem, but does not share any structures or discharge past the Town limits and ETJ.

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 [NCDEQ 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 (Y/N)	Water Quality Recovery Program (Y/N)
Statewide	Mercury	N	N

No TMDLs have been approved within the MS4 area. The Statewide TMDL for mercury does not require any actions by the NPDES stormwater permittee because most mercury in stormwater comes from atmospheric deposition.

3.6 Endangered and Threatened Species and Critical Habitat

Significant populations of threatened or endangered species and/or critical habitat may be 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
<i>Haliaeetus leucocephalus</i>	Bald eagle	Vertebrate	BGPA
<i>Glyptemys mühlenbergii</i>	Bog turtle	Vertebrate	T (S/A)
<i>Myotis septentrionalis</i>	Northern long-eared bat	Vertebrate	T
<i>Alasmidonta varicosa</i>	Brook floater	Invertebrate	ARS
<i>Cardamine micranthera</i>	Small-anthered bittercress	Vascular Plant	E

3.7 Industrial Facility Discharges

The Town of Kernersville 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
NCG020096	Salem Stone Quarry
NCG020115	Vulcan Construction Materials-E Forsyth
NCG030224	Johnson Controls Battery Group
NCG030240	Deere Hitachi Const Mach Corp
NCG030638	JRB Custom Works dba Paladin Custom Works
NCG030646	Deere-Hitachi Construction Machinery Corporation
NCG030658	Columbiana Hi Tech LLC
NCG060409	Amazon.com Services LLC - GSO1
NCG060410	Amazon.com Services LLC - DLT6
NCG070182	Amanzi Marble & Granite, LLC
NCG070199	Marble Granite World
NCG070213	Amanzi Marble & Granite LLC
NCG080430	YRC, Inc 671
NCG080760	ABF Freight System Incorporated
NCG080880	FedEx Ground
NCG140030	Loflin Concrete Co Incorporated
NCG140167	Ready Mixed Concrete Co - Kernersville, Plant 76
NCG140450	Temp Concrete Batch Plant - Winston Salem
NCG160157	APAC Atlantic Inc - Kernersville Plant (42404)
NCG160234	Sharpe Brothers Plant 4
NCG170046	Highland Industries Incorporated
NCG200353	OmniSource Southeast, LLC - Kernersville

3.8 Non-Stormwater Discharges

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

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 Kernersville to determine whether they may significantly impact water quality. The Town utilizes Public Education and Outreach and Pollution Prevention and Good Housekeeping BMPs to educate residents and municipal staff on the possible effects of detergents entering the surface waters.

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 Kernersville.

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	Possible
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified below, the Town of Kernersville is 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 Kernersville 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	Residential, Commercial, Schools	Public Education & Outreach, Public Involvement & Participation
Non-Stormwater Car Washing	Residential, Commercial, Schools	Public Education & Outreach, Public Involvement & Participation
Street Wash Water	Municipal Operations	Pollution Prevention and Good Housekeeping
Sediment	Construction, Commercial, Municipal Operations	Public Education & Outreach, Construction Site Runoff Control, Post-Construction Site Runoff Control, Pollution Prevention and Good Housekeeping

Fecal Coliform	Sewer Leak, Failing Septic Systems, Pet Waste	Public Education & Outreach, Illicit Discharge Detection and Elimination
Illicit Discharge/Illegal Dumping/Improper Disposal of Waste	Residential, Commercial, Industrial, Municipal Operations	Public Education & Outreach, Public Involvement & Participation, Illicit Discharge Detection and Elimination, Pollution Prevention and Good Housekeeping

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Town of Kernersville Stormwater Program is implemented through the Public Services Department overseen by the Director. The Stormwater Manager is responsible for day-to-day implementation of the Program with two additional Stormwater dedicated staff. An Engineering Project Coordinator enforces the Town's post-construction ordinances and a Stormwater Technician manages the MS4 Map, performs inspections and water sampling, and responds to drainage concerns.



Detailed Organizational Chart revised 2021/01

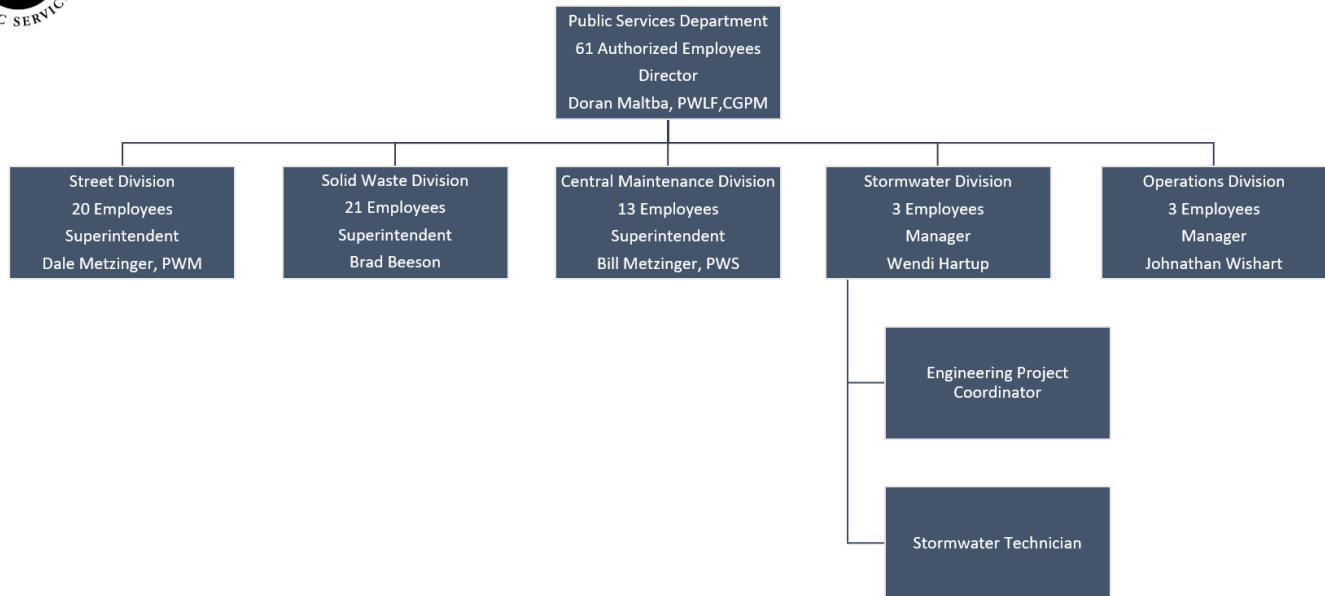


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Stormwater Manager	Wendi Hartup	Public Services
SWMP Management	Stormwater Manager	Wendi Hartup	Public Services
Public Education & Outreach	Stormwater Manager, Piedmont Triad Regional Council (PTRC)	Wendi Hartup, Danika Heflin (PTRC)	Public Services, PTRC
Public Involvement & Participation	Stormwater Manager, Piedmont Triad Regional Council (PTRC)	Wendi Hartup, Danika Heflin (PTRC)	Public Services, PTRC
Illicit Discharge Detection & Elimination	Stormwater Manager	Wendi Hartup	Public Services
Construction Site Runoff Control	NCDEQ	NCDEQ	NCDEQ Division of Land Resources
Post-Construction Stormwater Management	Town Engineer	Chris Jensen	Community Development
Pollution Prevention/Good Housekeeping for Municipal Operations	Stormwater Manager	Wendi Hartup	Public Services
Municipal Facilities Operation & Maintenance Program	Stormwater Manager	Wendi Hartup	Public Services
Spill Response Program	Fire Chief	Scott Alderman	Fire Department
MS4 Operation & Maintenance Program	Stormwater Manager	Wendi Hartup	Public Services
Municipal SCM Operation & Maintenance Program	Stormwater Manager	Wendi Hartup	Public Services
Pesticide, Herbicide & Fertilizer Management Program	Stormwater Manager	Wendi Hartup	Public Services

Vehicle & Equipment Cleaning Program	Central Maintenance Superintendent	Bill Metzinger	Public Services
Pavement Management Program	Street Superintendent	Dale Metzinger	Public Services
Total Maximum Daily Load (TMDL) Requirements	Stormwater Manager	Wendi Hartup	Public Services

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Kernersville 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 Kernersville Stormwater program is funded through a Town stormwater utility fee with a budget of \$1.7M. Approximately one to two capital projects are performed per year. An asset inventory of capital infrastructure is currently underway but is anticipated to take at least two years.

4.3 Shared Responsibility

The Town of Kernersville 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 Kernersville 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 Kernersville 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)
3.2.2 and 3.2.4 Outreach to Target Audiences, 3.3.2 Volunteer Opportunities	Piedmont Triad Regional Council (PTRC)	Y
3.6.5(b) On-Site Domestic Wastewater Treatment	County Health Department	N
3.6.5 Fecal Coliform Reduction (Sanitary Sewer Inspections and Maintenance)	Winston-Salem/Forsyth County Utilities	Y

4.4 Co-Permittees

There are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000483 for the Town of Kernersville. 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)
N/A			

4.5 Measurable Goals for Program Administration

The Town of Kernersville 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 and Part 4: Annual Self-Assessment 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. The self-assessment reporting period is the fiscal year (July 1 – June 30).			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
1.	Annual Self-Assessment Perform an annual evaluation of SWMP implementation, suitability of SWMP commitments and any proposed changes to the SWMP utilizing the NCDEQ Annual Self-Assessment Template	1. Prepare, certify and submit the Annual Self-Assessment to NCDEQ prior to August 31 each year	1. Annually Permit Years 1 – 4	1. 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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
2.	Permit Renewal Application Audit stormwater program implementation for compliance with the permit and approved SWMP, and utilize the results to prepare and	1. Participate in an NPDES MS4 Permit Compliance Audit, as scheduled and performed by EPA or NCDEQ	1. TBD – Typically permit year 4	1. Yes/No

Table 11: Program Administration BMPs

	submit a permit renewal application package	2. Self-audit and document any stormwater program components not audited by EPA or NCDEQ utilizing the DEQ Audit Template. Submit Self-Audit to DEMLR (required component of permit renewal application package).	2. Permit year 5	2. Yes/No/Partial
		3. Certify the stormwater permit renewal application (Permit renewal application form, Self-Audit, and Draft SWMP for the next 5-year permit cycle) and submit to NCDEQ at least 180 days prior to permit expiration.	3. Permit year 5	3. Date of permit renewal application submittal
	Documentation			
3.	Evaluate existing documentation methods to determine the best way to document implementation of all BMPs for annual reporting	1. Review existing documentation methods to determine if all reporting metrics in the SWMP are included	1. Permit year 1	1. Report the number of documents reviewed and if any changes were made

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PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of Kernersville 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 Kernersville 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
Non-Stormwater Car Washing	Residential, Commercial, Schools, Municipal Operations
Street Wash Water	Municipal Operations
Sediment	Construction, Commercial, Municipal Operations
Fecal Coliform	Sewer Overflows, Failing Septic Systems, Pet Waste
Illicit Discharge/Illegal Dumping/Improper Disposal of Waste	Residential, Commercial, Industrial, Municipal Operations

The Town of Kernersville will manage, implement and report the following public education and outreach BMPs. Kernersville has partnered with PTRC since 2018 to implement public education and outreach and will establish a legal agreement to continue the partnership. PTRC provides television commercials and radio advertising, newspaper and print ads, brochures and flyers, curriculum guides for schools, movie theater ads, and promotional items with a logo.

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
4.	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.			
	Partnership with PTRC			
	Continue to engage with PTRC for education and outreach initiatives that will be administered by PTRC. Outreach mechanisms include television commercials and radio advertising, newspaper and print ads,	1. Establish 5-year legal agreement with PTRC 2. Monitor PTRC activities to ensure partnership commitments are met	1. Permit year 1 2. Annually, for permit years 1 – 5	1. Yes/No/Status 2. Report number and types of programming and topics and total audience reached

Table 13: Public Education and Outreach BMPs

	brochures and flyers, curriculum guides for schools, movie theater ads, and promotional items with a logo. Initiatives will focus on residential, commercial, and school audiences. Target pollutants will include those listed in Tables 7 and 12.	3. Review legal agreement to determine if target pollutants or audiences should be revised	3. Annually, for permit years 2 – 5	3. Completed? (yes/no/status) and report if revision is required
		4. Renew legal agreement with PRTC or develop alternate program	4. Permit year 4	4. Report date renewed, or alternate program established
	Town-Sponsored Presentation			
5.	Continue to present briefings (in person or virtually) to local civic and business groups at least once a year. Information will include examples of good and poor stormwater quality management practices, how citizens and businesses can improve water quality, and general education information to improve public understanding of stormwater management issues	1. Select a local civic group or business group to target	1. Annually, for permit years 1 – 5	1. Completed? (yes/no/status)
		2. Develop or identify one presentation to cover target pollutants for the selected target audience	2. Annually, for permit years 1 – 5	2. Completed? (yes/no/status)
		3. Present to the selected target audience	3. Annually, for permit years 1 – 5	3. Report the number of participants and the topic
	Town-Sponsored Events			
6.	Continue to distribute information on stormwater during at least one Town-sponsored event or festival (in person or virtually) a year such as the Honeybee Festival	1. Develop or identify one interactive activity at the event that addresses a target pollutant or pollutants	1. Annually, for permit years 1 – 5	1. Completed? (yes/no/status)
		2. Staff a booth at the one event/festival chosen and perform the activity	2. Annually, for permit years 1 – 5	2. Report the chosen event, the number of participants for the activity, and the number of meaningful conversations about stormwater
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
7.	Stormwater Pages on Town Website			
	Continue to maintain the stormwater web pages with information	1. Post link to Laserfiche	1. Permit year 1	1. Completed? (yes/no/status)

Table 13: Public Education and Outreach BMPs

	regarding relevant ordinances, post-construction requirements, design standards, and Forsyth County’s household hazardous waste disposal program. A link to the DEQ Laserfiche webpage will be added so citizens can access annual reports, the SWMP, and the permit	2. Maintain the web pages - update any broken links, upload new educational material	2. Annually, for permit years 1 – 5	2. Report the date the web page is reviewed and updated as well as what updates are made
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.	Stormwater Infoline			
	Continue to maintain the stormwater infoline that allows citizens to ask stormwater questions and report stormwater issues. The infoline is advertised on the stormwater web pages	1. Identify and document a responsible party for answering the infoline	1. Permit year 1	1. Yes/No/Status
		2. Continue to train responsible parties in general stormwater knowledge, appropriate contacts for stormwater questions, and citizen opportunities within the stormwater program	2. Permit year 1	2. Report the date of training and number trained
		3. Continue to publicize infoline in materials developed for the stormwater program and posting on stormwater web page	3. Annually	3. Completed? (yes/no/status) and number of materials with stormwater infoline
		4. Continue to track the number and type of calls received	4. Annually	4. Report the number and type of calls

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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 Kernersville 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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
9.	Stormwater Pages on Town Website			
	The Town will continue to maintain the stormwater web pages with information regarding relevant ordinances, post-construction requirements, design standards, and Forsyth County’s household hazardous waste disposal program. A link to the DEQ Laserfiche webpage will be added so citizens can access annual reports, the SWMP, and the permit (see BMP No. 7)	1. See BMP No. 7	1. See BMP No. 7	1. See BMP No. 7
10.	Stormwater Infoline			
	The Town will continue to maintain the stormwater infoline that allows citizens to ask stormwater questions and report stormwater issues. The infoline is advertised on the stormwater web pages and in print media (see BMP No. 8)	1. See BMP No. 8	1. See BMP No. 8	1. See BMP No. 8
Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities designed to promote ongoing citizen participation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
11.	Partnership with PTRC			
	Continue to engage with the PTRC to develop volunteer opportunities that	1. Establish legal agreement with PTRC	1. See BMP No. 4	1. See BMP No. 4

Table 14: Public Involvement and Participation BMPs

	will be administered by PTRC. Opportunities will focus on residential, commercial, and school audiences. Target pollutants will include those listed in Table 7	2. Monitor PTRC activities to ensure partnership commitments are met	2. See BMP No. 4	2. See BMP No. 4
12.	Town-Sponsored Volunteer Opportunities			
	Continue to plan and implement one Town-sponsored volunteer opportunity (in person or virtually) such as stream cleanups, volunteer monitoring, or Earth Day activities at least once a year. Residential, commercial, and school audiences will be targeted with special emphasis on civic groups, large employers, and large trade associations	1. Develop or identify one volunteer activity that addresses a target pollutant or pollutants	1. Annually, for permit years 1 – 5	1. Completed? (yes/no/status)
		2. Coordinate and host the activity	2. Annually, for permit years 1 – 5	2. Report the type of event and number of participants

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PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Town of Kernersville 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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
	Updates to MS4 Map			
13.	Continue to maintain the MS4 map with information including stormwater conveyances, outfalls, flow direction, and receiving waters. Update the map annually with newly identified or constructed stormwater infrastructure	1. Develop process for collecting as-built data and incorporating into the existing map	1. Permit year 1	1. Completed? (yes/no/status)
		2. When new conveyances/outfalls are located or constructed add them to the map	2. Annually, for permit years 1 – 5	2. Report whether or not new outfalls were identified and if so, how many were identified during the permit year and how many have been identified over the permit term
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
	Maintain Legal Authority			
14.	The Town’s stormwater ordinance (UDO Chapter C4-2) provides legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping and spills into the MS4, including enforcement procedures and actions	1. Maintain and enforce IDDE ordinance	1. Continuously	1. Report if revision to ordinance is required

Table 15: Illicit Discharge Detection and Elimination BMPs

BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
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:			
	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.			
15.	Maintain IDDE Plan			
	Continue to implement the existing written IDDE plan	1. Create a mechanism to identify chronic violators and add to the plan	1. Permit year 1	1. Completed? (yes/no/status)
2. Maintain the written IDDE plan		2. Continuously	2. Yes/no/status	
16.	Outfall Inspections			
	Continue to 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. See BMP No. 19	1. See BMP No. 19
2. Perform inspections of 20% of outfalls as described in the IDDE plan		2. Annually, for permit years 1 – 5	2. Report the number of outfalls inspected and number of potential illicit discharges identified	
17.	IDDE Program Evaluation			
	Yearly evaluation of IDDE program to promote continuance of effective components and improvement in	1. Evaluation meeting with Stormwater Division staff	1. Annually, in conjunction with annual self-assessment for permit years 1-4	1. Report any proposed changes

Table 15: Illicit Discharge Detection and Elimination BMPs

	areas that are lacking, as well as identification of chronic violators	2. Review of IDDE reports and identification of chronic violators, issues, and/or “hot-spot” areas	2. Annually, in conjunction with annual self-assessment for permit years 1-4	2. Report the number of potential illicit discharges found, the number of illicit discharges verified, the number of illicit discharges resolved/removed, number of enforcement actions taken, and number of chronic violators/“hot spots” identified
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
	Tracking Spreadsheet			
18.	Maintain the existing IDDE tracking spreadsheet and update to include date investigations are closed and a mechanism to identify chronic violators	1. Update existing spreadsheet to include date investigation is closed	1. Permit year 1	1. Completed? (yes/no/status)
		2. Create a mechanism to identify chronic violators	2. See BMP No. 15	2. See BMP No. 15
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
	Staff Training			
19.	Continue to provide training 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. Staff are trained once per permit term and new hires are trained during onboarding	1. Identify or develop staff training for public services employees	1. Permit year 1	1. Completed? (yes/no/status)
		2. Train staff with Illicit Discharge & Detection responsibilities	2. Annually Permit years 1-5	2. Report number trained
		3. Train staff with the potential to discover an illicit discharge during routine work activities	3. Annually Permit years 1-5	3. Report number trained

Table 15: Illicit Discharge Detection and Elimination BMPs

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
20.	Stormwater Pages on Town Website			
	The Town will continue to maintain the stormwater web pages with information regarding relevant ordinances, post-construction requirements, design standards, and Forsyth County’s household hazardous waste disposal program. A link to the DEQ Laserfiche webpage will be added so citizens can access annual reports, the SWMP, and the permit (see BMP No. 7)	1. See BMP No. 7	1. See BMP No. 7	1. See BMP No. 7
21.	Stormwater Infoline			
	The Town will continue to maintain the stormwater infoline that allows citizens to ask stormwater questions and report stormwater issues. The infoline is advertised on the stormwater web pages and in print media (see BMP No. 8)	1. See BMP No. 8	1. See BMP No. 8	1. See BMP No. 8

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PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, the Town of Kernersville 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 included 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 local delegated SPCA Program ordinance(s)/regulatory mechanism(s) can be found at: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control>

The Town of Kernersville 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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
22.	Municipal Staff Training			
	Train municipal staff who receive calls from the public on the protocols for referral and tracking of construction site runoff control and waste management complaints	1. Train municipal staff on proper handling of construction site runoff control and waste management complaints	1. Annually Permit Years 1-5	1. Number of staff trained
2. Document the number of violations identified and referred to NCDEQ		2. Annually, for permit years 1-5	2. Report the number of violations referred	

Table 17: Construction Site Runoff Control BMPs

Table 17: Construction Site Runoff Control BMPs				
	Stormwater Infoline			
23.	The Town will continue to maintain the stormwater infoline that allows citizens to ask stormwater questions and report stormwater issues. The infoline is advertised on the stormwater web pages and in print media (see BMP No. 8)	1. See BMP No. 8	1. See BMP No. 8	1. See BMP No. 8
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
	Maintain Legal Authority			
24.	The Town will continue to enforce construction waste management through the prohibition of illicit discharges/illegal dumping/improper disposal of waste	1. See BMP No. 14	1. See BMP No. 14	1. See BMP No. 14
	Contractor Education			
25.	Communicate waste management requirements to construction site operators	1. Identify/develop fact sheet to share at pre-construction meetings	1. Permit year 3, after ordinance is adopted	1. Yes/no/status
		2. Add fact sheet to website	2. Permit year 3, after ordinance is adopted	2. Yes/no/status
		3. Distribute fact sheet at pre-construction meetings	3. Permit year 3, after ordinance is adopted	3. Number of fact sheets distributed

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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 Kernersville 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 Kernersville 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-III)	15A NCAC 2B .0620 - .0624	UDO Chapter C – Article III
Water Supply Watershed (WS-IV)	15A NCAC 2B .0620 - .0624	UDO Chapter C – Article III
Randleman Lake Water Supply Watershed Nutrient Management Strategy	15A NCAC 2B .0251	UDO Chapter C – Article VI

The Town of Kernersville 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

Permit Requirements for Plan Review and Approval	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.1(a) Authority	UDO Chapter C – 4-1.2	10/1/2007
3.6.2(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	UDO Chapter C – 4-1.2	10/1/2007
3.6.2(b) Plan Review	UDO Chapter C – 4-1.14, UDO Chapter C – 4-3.1	10/1/2007
3.6.2(c) O&M Agreement	UDO Chapter C – 4-3.12	10/1/2007
3.6.2(d) O&M Plan	UDO Chapter C – 4-3.12	10/1/2007
3.6.2(e) Deed Restrictions/Covenants	UDO Chapter C – 4-3.15	10/1/2007
3.6.2(f) Access Easements	UDO Chapter C – 4-1.11	10/1/2007
Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.1(b) Documentation	UDO Chapter C – 4-3.15	10/1/2007
3.6.1(c) Right of Entry	UDO Chapter C – 4-1.8	10/1/2007
3.6.3(a) Pre-CO Inspections	UDO Chapter C – 4-3.2	10/1/2007
3.6.3(b) Compliance with Plans	UDO Chapter C – 4-3.2	10/1/2007
3.6.3(c) Annual SCM Inspections	UDO Chapter C – 4-3.11	10/1/2007
3.6.3(d) Low Density Inspections		Permit Year 2
3.6.3(e) Qualified Professional	UDO Chapter C – 4-3.11	10/1/2007
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.5(a) Pet Waste		Permit Year 2
3.6.5(b) On-Site Domestic Wastewater Treatment	NCGS 130A-335(e)	7/1/1982

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.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
26.	Standard Reporting			
	Implement standardized tracking, documentation, inspections and reporting mechanisms to compile appropriate data for the annual self-	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

Table 20: Post Construction Site Runoff Control BMPs

	assessment process. Data shall be provided for each Post-Construction/Qualifying Alternative Program being implemented as listed in Tables 18 and 19	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
This permit requirement is fully met by the existing post-construction program, see references provided in Table 19				
Permit Ref.	3.6.1: 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
This permit requirement is fully met by the existing post-construction program, see references provided in Table 19				

Table 20: Post Construction Site Runoff Control BMPs

Permit Ref.	3.6.2: 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	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, see references provided in Table 19				
Permit Ref.	3.6.3: 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
27.	Revisions to Code of Ordinances			
	Revise existing ordinance to specifically require inspection of low-density projects	1. Revise code to require inspection of low-density projects at least once during the permit term by a qualified professional	1. Permit year 2	1. Report code reference and date adopted

Table 20: Post Construction Site Runoff Control BMPs

BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
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.			
28.	Revisions to Code of Ordinances			
	Revise existing ordinance to add controls of fecal coliform from pet waste	1. Revise code to add controls of fecal coliform from pet waste	1. Permit year 2	1. Report code reference and date adopted
29.	Forsyth County On-Site Wastewater Treatment			
	Coordinate with County to provide outreach and education of proper operation and maintenance of on-site domestic wastewater treatment (OSDWT)	1. Coordinate with the County to determine the number of OSDWT sites in Kernersville	1. Permit year 2	1. Report the number of sites identified
		2. Identify or develop educational materials for OSDWT with Forsyth County to educate owners of OSDWT system on recommended operation and maintenance and document	2. Permit year 3	2. Yes.No/Status
		3. Distribute educational materials to OSDWT owners in the town	3. Permit Year 3-5	3. Report the number of materials distributed

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PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Kernersville 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 (O&M) 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 Kernersville 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
30.	Pollution Prevention and Good Housekeeping (PPGH) Plan			
	Develop a PPGH Plan that incorporates all required program O&M procedures. This will include a municipal facilities plan, spill response procedures, MS4 inspections and maintenance plan, SCM plan, and pavement management program	1. Develop PPGH Plan	1. Permit year 1	1. Completed? (yes, no, status)
		2. Submit PPGH Plan to DEQ for review and approval	2. Permit year 1	2. Date submitted
3. Maintain and implement the written municipal PPGH Plan		3. Continuously after permit year 1	3. Completed? (yes, no, status)	

Table 21: Pollution Prevention and Good Housekeeping BMPs

		4. Perform municipal facility inspections in accordance with schedule adopted in PPGH Plan	4. Annually Permit Years 2 - 5	4. Report the number of inspections performed and the number of issues remedied
		5. Maintain facility inventory including stormwater pollution potential of facility	5. Continuously	5. Yes/No/Status
		6. Evaluate PPGH Plan	6. Annually, in conjunction with annual self-assessment for permit years 1-4	6. Report any proposed changes
	Staff Training			
31.	Develop or identify a staff training program for general stormwater pollution prevention/spill response/fertilizer training/pavement management and overview of the PPGH plan and provide to public services department employees	1. Identify or develop staff training program for public services employees	1. Permit year 1	1. Completed? (yes/no/status)
		2. Train staff with PPGH responsibilities, street sweeping responsibilities, and staff that work at municipal "industrial" facilities	2. Annually Permit year 1 - 5	2. Report number trained
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
32.	Spill Response Procedures			
	Maintain spill response procedures as part of the SPCC Plan for Public Services and continue training of appropriate staff	1. Train staff at facilities with potential for high hazard spills in first response actions and reporting procedures	1. See BMP No. 31	1. See BMP No. 31

Table 21: Pollution Prevention and Good Housekeeping BMPs

BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
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.			
33.	Pollution Prevention and Good Housekeeping (PPGH) Plan			
	Develop a PPGH Plan that incorporates all required program O&M procedures. This will include an MS4 inspections and maintenance plan, (see BMP No. 30)	1. See BMP No. 30	1. See BMP No. 30	1. See BMP No. 30
2. Perform MS4 inspections and maintenance		2. Perform in accordance with schedule adopted in PPGH Plan	2. Report the number of inspections performed and the number of issues remedied	
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.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
34.	Pollution Prevention and Good Housekeeping (PPGH) Plan			
	Develop a PPGH Plan that incorporates all required program O&M procedures. This will include a SCM O&M plan (see BMP No. 30)	1. See BMP No. 30	1. See BMP No. 30	1. See BMP No. 30
		2. Maintain an inventory of municipal SCMs including device type, as-built plans, O&M plans, inspections, maintenance, etc.	2. Permit Year 1	2. Yes/No/Status
		3. Maintain municipal SCM inventory	3. Continuously Permit Years 1 -5	3. Yes/No/Status
2. Perform municipal SCM inspections and maintenance		2. Annually for permit years 1-5	2. Report the number of inspections performed and the number of devices maintained	
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
35.	Applicator Training			

Table 21: Pollution Prevention and Good Housekeeping BMPs

	Continue training of Town staff who apply landscape chemicals and are required to attend certification classes	1. Require staff to maintain certifications and verify	1. Annually for permit years 1-5	1. Report the number of staff certified
36.	Staff Training			
	Develop or identify a staff training program for general stormwater pollution prevention/spill response/fertilizer training and overview of the PPGH plan and provide to public services department employees (see BMP No. 31)	1. See BMP No. 31	1. See BMP No. 31	1. See BMP No. 31
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
37.	NPDES Industrial Permit Compliance			
	Comply with requirements of NPDES no-exposure industrial permit for Public Services	1. Review Public Services facility annually to determine if no exposure requirements are still met and obtain a NCG080000 permit if not	1. Annually for permit years 1-5	1. Completed? (yes, no, status) Number of no exposure certification or general permit covering the facility (NCGNE number or NCG permit number)

Table 21: Pollution Prevention and Good Housekeeping BMPs

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38.	Vehicle and Equipment Cleaning and Maintenance Facility Inspection			
	Routine inspections as part of general facility inspections (see BMP No. 30) to ensure that vehicle and equipment facilities are following proper procedures to minimize water quality impacts from vehicle and equipment cleaning and maintenance	1. See BMP No. 30	1. See BMP No. 30	1. See BMP No. 30
39	Vehicle and Equipment Cleaning and Maintenance Facility Staff Training			
	Develop or identify a staff training program for general stormwater pollution prevention/spill response/fertilizer training and overview of the PPGH plan and provide to public services department employees (see BMP No. 31)	1. See BMP No. 31	1. See BMP No. 31	1. See BMP No. 31
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
40.	Pollution Prevention and Good Housekeeping (PPGH) Plan			
	Develop a PPGH Plan that incorporates all required pavement management program components to control litter, leaves, debris, particulate and fluid pollutants associated with vehicles, and establish specific frequencies, schedules, and documentation (see BMP No. 30)	1. See BMP No. 30	1. See BMP No. 30	1. See BMP No. 30
		2. Train staff on requirements, schedules and reporting.	2. See BMP No.31	2. See BMP No.31
		3. Implement PPGH Plan for pavement management and document	3. Continuously Permit Years 2-5	3. Report tons leaves collected, tons material swept, and miles of streets swept

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