

Draft Stormwater Management Plan

City of Statesville

NCS000587

February 2023



Prepared By:



LJB Engineering, PC
311-A S. Main St.
Kernersville, NC 27284

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	6
3.8 Non-Stormwater Discharges	6
3.9 Target Pollutants and Sources.....	7
PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION.....	9
4.1 Organizational Structure	9
4.2 Program Funding and Budget	13
4.3 Shared Responsibility	13
4.4 Co-Permittees.....	14
4.5 Measurable Goals for Program Administration	14
PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM.....	17
PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM.....	20
PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM.....	22
PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM	26
PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM	28
PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS.....	33

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 City of Statesville 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 City of Statesville 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 NCS000587, as issued by NCDEQ. This permit covers activities associated with the discharge of stormwater from the MS4 as owned and operated by the City of Statesville and located within the corporate limits of the City of Statesville.

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

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

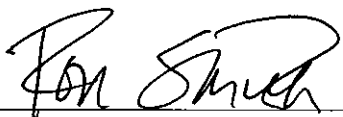
PART 2: CERTIFICATION

By my signature below I hereby certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

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

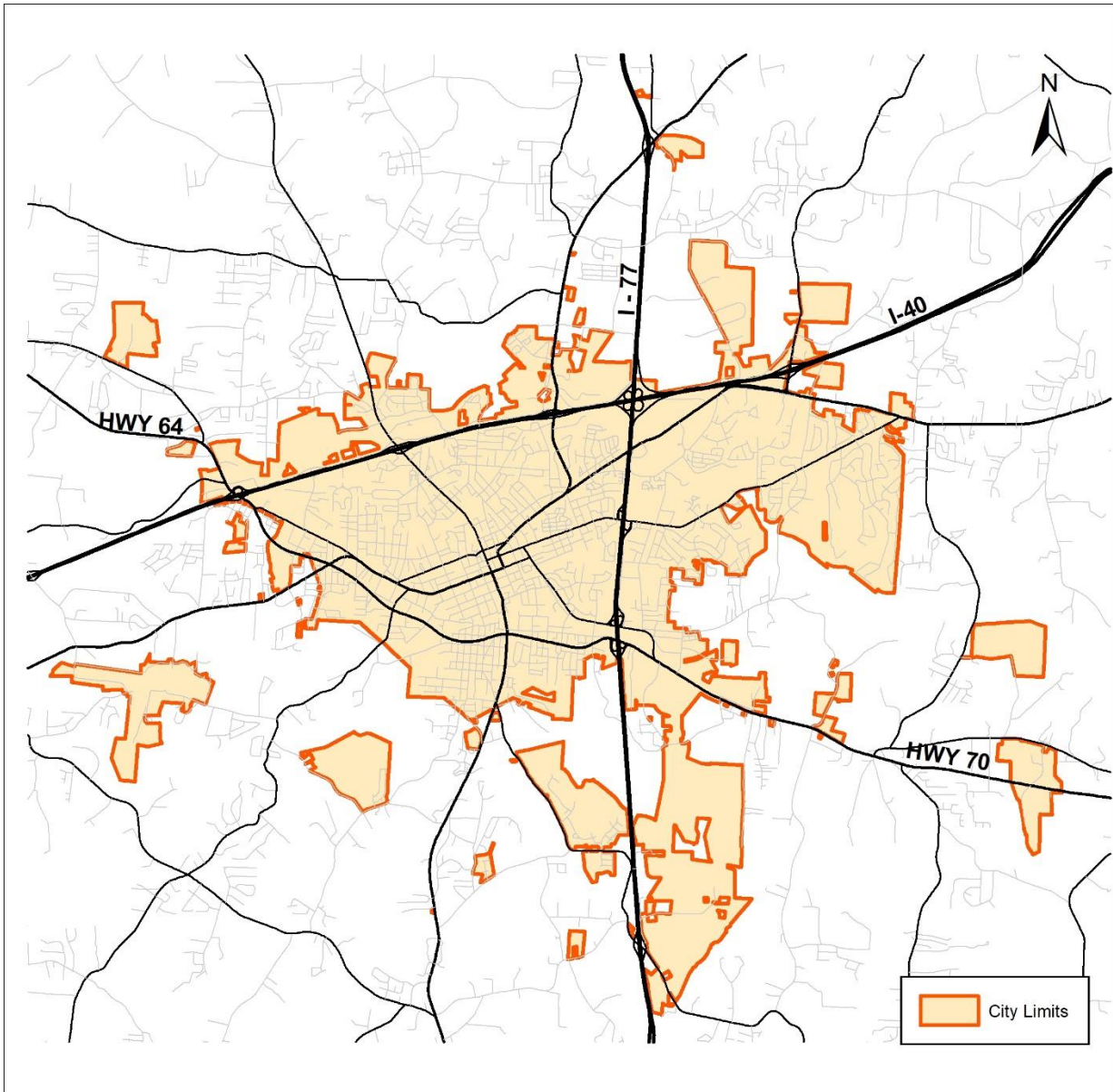
- I am a ranking elected official.
- I am a principal executive officer for the permitted MS4.
- I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (*check one*):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

Signature:	
Print Name:	Ron Smith
Title:	City Manager
Signed this 21 st day of February 20 23	

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

The City is currently mapping the MS4 system and plans to have the system mapped by 2024. Mapping will include outfalls, lat/long location, date of inspection, size of outfall (pipe size or approximate channel shape/size), flow direction, material (of outfall pipe or channel), invert elevations, receiving stream, presence of dry weather flow during inspection, photo documentation, and general notes/observations.

Table 1: Summary of MS4 Mapping

Percent of MS4 Area Mapped	50	%
No. of Major Outfalls* Mapped	55	total

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

3.3 Receiving Waters

The City of Statesville MS4 is located within the Yadkin-Pee Dee River Basin and discharges directly into receiving waters as listed in Table 2 below. Applicable water quality standards listed below are compiled from the following NCDEQ sources:

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

Table 2: Summary of MS4 Receiving Waters

Receiving Water Name	Stream Index / AU Number	Water Quality Classification	303(d) Listed Parameter(s) of Interest
Fourth Creek	12-108-20	C	Fish Community (Nar, AL, FW)
Third Creek	12-108-20-4	C	
Back Creek	12-108-20-4-2	C	
Duck Creek	12-108-20-4-3	C	
I-L Creek	12-108-20-4-4	C	
Morrison Creek	12-108-20-3	C	
Gregory Creek	12-108-20-3-1	C	
Fifth Creek	12-108-13	C	
Beaver Creek	12-108-13-1	C	

C – Class C (fishable/swimmable waters)

(Nar, AL, FW) – Narrative standard, aquatic life, fresh waters

Data from the 2018 Final Water Quality Assessment

3.4 MS4 Interconnection

The City of Statesville 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 [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)
Fourth Creek	Fecal Coliform	N	N
Fourth Creek	Turbidity	N	N
Third Creek	Turbidity	N	N
Statewide	Mercury	N	N

The statewide TMDL for Mercury does not require any actions by the City.

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>Myotis septentrionalis</i>	Northern Long-eared Bat	Mammals	Threatened
<i>Hexastylis naniflora</i>	Dwarf-flowered Heartleaf	Flowering Plants	Threatened

3.7 Industrial Facility Discharges

The City of Statesville 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
NCG020109	Statesville Quarry
NCG030255	J C Steele And Sons Inc.
NCG030379	Merchants Metals
NCG030513	Goodyear Tire & Rubber Co
NCG030537	DENSO Manufacturing North Carolina Inc - Statesville
NCG030574	Doosan Infracore Portable Power A Div.of Clark Equipment Co
NCG050006	Elmer's Products, Inc.
NCG050098	International Paper Co-Container
NCG050270	Hexpol Compounding NC, Inc.
NCG060156	Bartlett Milling Company
NCG060382	Mountaire Farms - Statesville Breeder Feed Mill
NCG070164	Southeastern Concrete Products of NC
NCG080190	United Parcel Service-Statesville
NCG110112	Fourth Creek WWTP
NCG110113	Third Creek WWTP
NCG140208	Concrete Supply Co
NCG140422	BLUEDOT-Statesville
NCG150007	Statesville Regional Airport
NCG160068	Maymead Materials, Inc.
NCG160198	Northside Drive Batch Plant
NCG170215	JPS Composite Materials Corp.
NCG170411	SDFC, LLC
NCG180256	Kewaunee Scientific Corp.
NCG200363	L Gordon Iron & Metal Co
NCG200495	L Gordon Iron & Metal Co
NCGNE0093	Lescare Kitchens, Inc.
NCGNE0191	The Record & Landmark
NCGNE0279	Sonoco-CorrFlex
NCGNE0599	Iredell Fiber Incorporated
NCGNE1026	Highland Industries
NCGNE1065	J.C. Steele & Sons, Inc.
NCS000018	J.C. Steele & Sons, Inc.

3.8 Non-Stormwater Discharges

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

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

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 City of Statesville 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	N/A
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the City of Statesville 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 City of Statesville has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts.

Selecting schools as a target audience provides the opportunity to reach many families and have a significant impact through education and outreach opportunities. Selecting homeowners and businesses as

target audiences provides the opportunity to impact non-point pollution by citizens and businesses that are polluting unintentionally through uninformed management practices.

Table 7: Summary of Target Pollutants and Sources

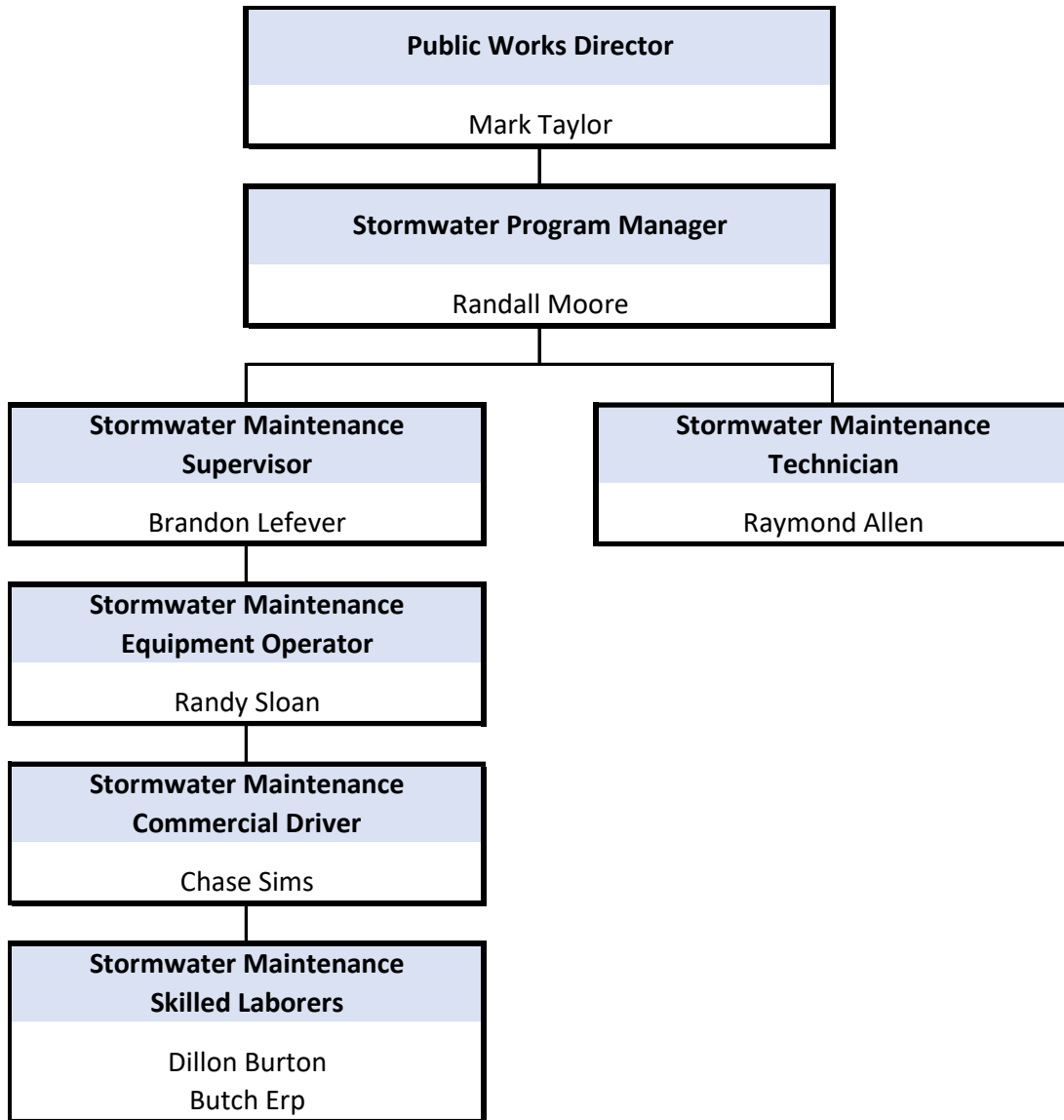
Target Pollutant(s)	Likely Source(s)/Target Audience(s)	SWMP Program Addressing Target Pollutant(s)/Audience(s)
Litter	Residents, Businesses, Schools	Public Education & Outreach Public Involvement & Participation
Grass Clippings, leaves, and Yard Waste	Residents, Businesses	Public Education & Outreach Public Involvement & Participation
Fecal Coliform	Sewer overflows, failing septic systems, illicit discharges	Public Education & Outreach IDDE
Nutrients	Sewer overflows, failing septic systems, urbanization	Public Education & Outreach IDDE Pollution, Prevention & Good Housekeeping
Sediment	Businesses (construction)	Construction Site Runoff (ESC) Post-Construction Runoff
Illicit Discharges, Illegal Dumping, Improper Disposal of Waste	Residents, Businesses, Municipal	Public Education & Outreach IDDE
General Non-Point Source Pollution	Residents, Businesses, Schools, Municipal	Public Education & Outreach Public Involvement & Participation

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The City of Statesville’s stormwater program is managed by the City’s Stormwater Division within the City’s Public Works Department. The City’s Public Information Department will assist with many of the public outreach involvement components of the program. The Planning Department oversees the engineering plan review but relies on the Stormwater Division to review plans for stormwater compliance. With guidance from the Stormwater Division, Good housekeeping and pollution prevention at City facilities are performed by applicable staff in the Sanitation Division, Streets Division, Fleet Maintenance Division, Water Resources Division and the Water and Sewer Division.

ORGANIZATIONAL CHART – PUBLIC WORKS STORMWATER DIVISION



Stormwater Program Manager:

- Supports the Public Works Director to achieve and maintain compliance with the City's National Pollutant Discharge Elimination System (NPDES) Phase 2 Storm Water permit (including Public Education and Outreach, Public Involvement and Participation, Illicit Discharge Detection and Elimination, Construction Site Runoff Controls, Post-Construction Site Runoff Controls, and Pollution Prevention and Good Housekeeping for Municipal Operations);
- Implements City and department goals and objectives assigned by the Director
- Prepares detailed technical and administrative special projects and reports;
- Monitors expenditures authorized in the annual budget and reports findings to the Director;
- Supervises special construction projects per assignment including reading and interpretation of construction plans and specifications;
- Conducts construction plan reviews and Storm Water regulation compliance reviews;
- Inspects Storm Water facilities and BMPs, installations, systems, and new construction for compliance with applicable Storm Water regulations as well as approved construction plans and specifications;
- Responds to and resolves citizen inquiries and complaints concerning Storm Water issues; • Provides staff assistance to the Director; serves on committees as required;
- Performs related tasks as required.

Stormwater Maintenance Technician:

- Supports the Stormwater Program Manager to achieve and maintain compliance with the City's National Pollutant Discharge Elimination System (NPDES) Phase 2 Stormwater permit (including Public Education and Outreach, Public Involvement and Participation, Illicit Discharge Detection and Elimination, Construction Site Runoff Controls, Post-Construction Site Runoff Controls, and Pollution Prevention and Good Housekeeping for Municipal Operations);
- Supports City and department goals and objectives assigned by the Stormwater Program Manager;
- Prepares routine and special technical and administrative projects and reports;
- Coordinates special construction projects per assignment including reading and interpretation of construction plans and specifications;
- Supports the Stormwater Program Manager in performing construction plan review and stormwater plan review.
- Inspects stormwater facilities and BMPs, installations, systems, and new construction for compliance with applicable stormwater regulations as well as construction plans and specifications.
- Supports the Stormwater Program Manager in responding to and resolving citizen inquiries and complaints concerning Stormwater issues.
- Provides staff assistance to the Stormwater Program Manager; serves on committees as required;
- Performs related tasks as required.

Stormwater Maintenance Supervisor:

- Inspects and monitors work crews to determine if work complies with established city standards;
- Oversees installation, maintenance, repair and construction of ROW storm drainage systems, tail ditches, inlet and outlet improvements, sinkhole repairs, minor storm drainage system upgrades, and minor stream debris/blockage removal;
- Records and inputs as-built data into GIS computer system for accurate records of storm system;
- Estimates costs of maintenance and repair projects;
- Assigns and schedules work of maintenance crew;
- Maintains employee time and leave records;
- Helps evaluate the work performance of employees.

Stormwater Maintenance Equipment Operator:

- Operates a motor grader on construction and maintenance work for stormwater drainage facilities;
- Operates backhoe and track loader, rubber tire loader, tandem dump trucks, boom truck;
- Checks working condition of equipment; services equipment regularly and makes minor repairs to equipment;
- Consults with supervisors concerning areas of grading, leveling, storm pipe slope and other maintenance issues, recommends solutions based on experience gained as a skilled motor equipment operator;
- Reads and checks grade;
- Works in stream and creek environments, city's maintained rights-of-way, and free-flowing streams and creeks which are critical to the operation of the city's infrastructure interests;
- Understanding of prohibited activities in a stream environment;
- Performs duties without direct supervision.

Stormwater Skilled Laborer:

- Acts as lead worker on projects;
- Operates backhoe, dump truck, and chain saw;
- Assists in storm drainage system maintenance, cleaning, and construction;
- Operates, maintains, and repairs departmental equipment;
- Must be able to make confined space entry;
- Assists supervisors in planning and organizing work and training unskilled laborers;
- Interacts with public in a professional and respectful manner;
- Organizes and sets up daily work assignments;
- Performs a variety of heavy manual work in connection with the repair, maintenance, and construction of stormwater infrastructure;
- Must be able to assist in installation of trench shoring equipment, if required;
- For work in sensitive aquatic environment areas, employee must understand and appreciate permissible and prohibited activities that could affect water quality and quantity conditions;
- Follows all safety policies and procedures;
- Performs other related tasks.

Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Stormwater Program Manager	Randall Moore	Stormwater Division
SWMP Management	Stormwater Program Manager	Randall Moore	Stormwater Division
Public Education & Outreach	Stormwater Program Manager	Randall Moore	Stormwater Division
Public Involvement & Participation	Stormwater Program Manager	Randall Moore	Stormwater Division
Illicit Discharge Detection & Elimination	Stormwater Maintenance Technician	Raymond Allen	Stormwater Division
Construction Site Runoff Control	Stormwater Program Manager	Randall Moore	Stormwater Division
Post-Construction Stormwater Management	Stormwater Program Manager	Randall Moore	Stormwater Division
Pollution Prevention/Good Housekeeping for Municipal Operations	Public Works Director	Mark Taylor	Public Works Department
Municipal Facilities Operation & Maintenance Program	Public Works Director	Mark Taylor	Public Works Department
Spill Response Program	Fire Chief	Andy Weatherman	Fire Department
MS4 Operation & Maintenance Program	Stormwater Program Manager	Randall Moore	Stormwater Division
Municipal SCM Operation & Maintenance Program	Stormwater Program Manager	Randall Moore	Stormwater Division
Pesticide, Herbicide & Fertilizer Management Program	Public Works Director	Mark Taylor	Public Works Department

Vehicle & Equipment Cleaning Program	Public Works Director	Mark Taylor	Public Works Department
Pavement Management Program	Public Works Director	Mark Taylor	Public Works Department
Total Maximum Daily Load (TMDL) Requirements	Stormwater Program Manager	Randall Moore	Stormwater Division

4.2 Program Funding and Budget

In accordance with the issued permit, the City of Statesville 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 City of Statesville Council adopted the Stormwater Utility Ordinance on May 6, 2019, creating a public enterprise, referred to as the Statesville Stormwater Utility, for the purpose of generating revenue to support the Statesville Stormwater Management Program. The fee is based on an Equivalent Residential Unit (ERU) that was estimated based on measured impervious area of a sample of residential properties across the City. Each single-family residential property with built upon area will be billed the established fee for 1 ERU, currently \$4.70, per month. Each non-single-family residential property will be billed 1 ERU per 3,050 square feet of impervious area per month. The utility began billing in July 2019.

Total ERUs for the City were estimated and the stormwater fee was set to generate an estimated revenue of \$2 million per year. This budget includes approximately \$300,000 for stormwater professional staff, \$300,000 for additional maintenance staff, \$600,000 in annual capital projects, \$125,000 in NPDES program efforts, and \$675,000 surplus to carry over.

4.3 Shared Responsibility

The City of Statesville 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 City of Statesville remains responsible for compliance if the other entity fails to perform the permit obligation and may be subject to enforcement action if neither the City of Statesville 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 – Public Education and Outreach	Regional Stormwater Partnership of the Carolinas See BMP #5.1	N
3.5 – Construction Site Runoff Controls	Iredell County - Erosion & Sediment Control	Y

4.4 Co-Permittees

The are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000587 for the City of Statesville. 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 City of Statesville 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.	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
# 4.1	Permit Renewal Application			
	Submit a permit renewal application and draft SWMP no later than 180 days prior to permit expiration.	1. Draft SWMP applicable to the next 5-years following permit reissuance.	1. Permit year 5	1. Yes/No

Table 11: Program Administration BMPs

		2. Certify the permit renewal application (permit application form and draft SWMP) and submit to NCDEQ at least 180 days prior to permit expiration.	2. Permit Year 5	2. Yes/No
Permit Ref.	2.1.1: Funding and Staffing Measures to 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
#4.2	Maintain adequate funding and staffing			
	Maintain a Stormwater Utility to provide funding sufficient to operate a stormwater program that is in compliance with this permit.	Perform a documented analysis to confirm that the program is adequately funded and staffed.	Permit year 1	Adequate/Inadequate
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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
# 4.3	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.	1. Prepare, conduct, and document the annual evaluation.	1. Annually	1. Yes/No
Permit Ref.	2.1.7: Permit and SWMP Available to Public Measures to keep an up-to-date version of its permit and SWMP available to the Division and the public online. Ordinances or other regulatory mechanisms (or a list thereof) providing the legal authority necessary to implement and enforce the requirements of the permit and SWMP shall also be posted online.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#4.4	Permit, SWMP, and Ordinances Available to Public			

Table 11: Program Administration BMPs

	Make current MS4 Permit, SWMP, and stormwater-related ordinances available online for public access.	1. Make the current SWMP available to the public from the City website.	1. Year 1	1. Yes/No
		2. Make the current NPDES MS4 Permit available to the public from the City website.	2. Year 1	2. Yes/No
Permit Ref.	2.2.2: Procedures for Six Minimum Control Measures (MCMs) Measures to 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
# 4.5	Permit Renewal Application			
	Maintain written procedures for implementing MCMs. Written procedures shall identify specific action steps, schedules, resources, and responsibilities for implementing the MCMs.	1. Create all required written procedures.	1. Permit year 1	1. Yes/No
		2. Review all written programs and update as needed.	2. Permit Years 2 - 5	2. Yes/No

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The City of Statesville 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 City of Statesville 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, Businesses, Schools
Grass clippings, leaves, yard waste	Residential, Businesses
Fecal Coliform	Residential, Businesses
Nutrients	Residential, Businesses
Sediment	Businesses (construction)
Illicit Discharges/Illegal Dumping/Improper Disposal of Waste	Residential, Businesses, Municipal Employees
Improper Disposal of Waste	Residential, Businesses, Municipal Employees

Statesville maintains membership with Regional Stormwater Partnership of the Carolinas (RSPC). RSPC provides a forum for collaborations and creates a synergy with municipalities (currently 18) to provide education and outreach activities to meet stormwater permit requirements. Recent accomplishments of RSPC include media productions to promote awareness of regional stormwater issues (website development and radio and television spots), educational conferences, and training workshops.

The City of Statesville will manage, implement and report the following public education and outreach BMPs.

Table 13: Public Education and Outreach BMPs				
Permit Ref.	3.2.2 and 3.2.4: Outreach to Targeted Audiences Measures to identify the specific elements and implementation of a Public Education and Outreach Program to share educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and how the public can reduce pollutants in stormwater runoff. The permittee shall provide educational information to identified target audiences on pollutants/sources identified in table 12 above, and shall document the extent of exposure of each media, event or activity, including those elements implemented locally or through a cooperative agreement.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
# 5.1	Partnership with Regional Stormwater Partnership of the Carolinas (RSPC)			

Table 13: Public Education and Outreach BMPs

	Maintain a membership with RSPC and work collaboratively with other members to develop public education and outreach programs to be implemented within the City of Statesville.	1. Maintain partnership with RSPC and review agreement to ensure compliance with all requirements outlined in 3.2 of the permit. 2. Participate in quarterly RSPC meetings.	1. Annually 2. Quarterly	1. Report date renewed. 2. Number of meetings participated
# 5.2	New Customer Information Handout			
	Develop, modify, or adopt informational materials suitable for distribution to customers starting new utility service.	1. Provide a brochure with general stormwater awareness and the importance of reducing pollutants	1. On-going	1. Number of brochures provided annually
# 5.3	Educate City Employees, & Businesses			
	Provide educational information to City employees and businesses regarding the importance of keeping stormwater clean.	1. Provide training events for City staff to raise awareness of stormwater issues. 2. Provide informational packet for businesses impacted by the City's stormwater program.	1. Annually 2. 20% annually during permit cycle	1. Number of staff trained 2. Report packets distributed in percentage of businesses
# 5.4	City Sponsored Event or Festival			
	Distribute information on stormwater during at least one City sponsored event annually, such as Creek Week or Arbor Day. If the planned event is cancelled or held virtually due to circumstances beyond the control of the stormwater department, the handout will be provided on the website for citizens to download.	1. Train City staff to man a stormwater booth, distribute handouts, and talk with the public about stormwater issues. 2. Man a booth at the selected event. Distribute handout and talk with the public about stormwater	1. Prior to event 2. Annually	1. Report (yes/no) 2. Report date of event and number of handouts distributed
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
# 5.5	Stormwater Page on City's Website			

Table 13: Public Education and Outreach BMPs

	Develop/Improve informational webpage to convey the stormwater program message.			
		1. Maintain the webpage by providing new information and updating information.	1. Review quarterly and update as needed	1. Yes/No
		2. Set a hit counter in order to monitor engagement.	2. Ongoing	2. Report the number of hits
# 5.6	Information to Developers			
	Make available to developers all relevant ordinances, post-construction requirements, design standards, checklists, and/or other materials.	1. Make the current Drainage Design Manual available to developers from the City website.	1. When revised	1. Yes/No
Permit Ref.	3.2.5: Stormwater Hotline Measures for a stormwater hotline/helpline for the purpose of public education and outreach.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
# 5.7	Stormwater Hotline			
	Provide a stormwater hotline/helpline for public education and outreach. Train a responsible party to answer hotline and respond appropriately.	1. Maintain a hotline phone number and responsible party.	1. Ongoing	1. Yes/No
		2. Publicize hotline in stormwater publications, on webpage, and on social media.	2. Ongoing	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 City of Statesville 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
# 6.1	Public Input on Stormwater Issues			
	Maintain a Stormwater Advisory Commission (SWAC) to provide input and offer advice on the stormwater program. Document meeting attendance and agenda.	1. Meet at least semi-annually	1. Semi-annually	1. Yes/No
# 6.2	Public Input on Stormwater Program			
	Maintain a Stormwater Hotline to allow citizens to ask stormwater questions and report stormwater issues.	1. Maintain a hotline phone number and responsible party.	1. Ongoing	1. Yes/No
# 6.3	Stormwater Page on the City Website			
	Maintain a webpage on the City website to provide information to the public on the stormwater program. The webpage will provide links to stormwater ordinances, manuals, and policies. It will advertise the stormwater hotline and city events where stormwater information will be available. It will advertise volunteer activities and opportunities for involvement to promote the stormwater program goals.	1. Maintain the webpage by providing new information and updating information.	1. Review quarterly and update as needed	1. Yes/No
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
# 6.4	Citizen Volunteer Opportunities			

Table 14: Public Involvement and Participation BMPs

	Provide volunteer opportunities for citizen participation. Example activities include: provide materials for drain marker templates for organizations seeking volunteer opportunities, host a Stream Clean event to pick up trash along streams, provide Creek Week activities, etc... Track the participation.	1. Provide at least one opportunity for public participation	1. Annually	1. Yes/No
# 6.5	Partnership with Regional Stormwater Partnership of the Carolinas (RSPC)			
	Maintain a membership with RSPC and work collaboratively with other members to develop public involvement opportunities for City of Statesville residents and businesses.	1. Maintain partnership with RSPC.	1. Annually	1. Report date renewed.

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The City of Statesville will 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
# 7.1	MS4 Map			
	Maintain a MS4 map including stormwater conveyances, flow direction, major outfalls, and waters of the US receiving stormwater discharges.	1. Maintain a GIS layer identifying major outfalls. Map 1/3 of permitted area per year.	1. Annually	1. Yes/No
		2. Maintain a GIS layer identifying waters of the US. Map 1/3 of permitted area per year.	2. Annually	2. Yes/No
		3. Maintain a GIS layer identifying flow direction. Map 1/3 of permitted area per year.	3. Annually	3. Yes/No
		4. Continue updating MS4 map for completeness	4. Ongoing	4. 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	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
# 7.2	IDDE Ordinance			
	Maintain an IDDE Ordinance 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.	1. Periodically review the IDDE Ordinance to evaluate the need for revisions	1. Annually	1. Yes/No Report if revisions were made

Table 15: Illicit Discharge Detection and Elimination BMPs

Permit Ref.	3.4.3: IDDE Plan			
	Measures to maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the MS4. The plan shall provide standard procedures and documentation to: <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
# 7.3	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. Annually	1. Yes/No
		2. Split major outfalls into five equal groups for inspections to provide inspection for each outfall once during the 5-year permit cycle	2. Begin in Permit year 4, then annually	2. Yes/No/NA
# 7.4	IDDE Plan			
	Maintain a Standard Operating Procedure (SOP) for dry weather inspections and an IDDE Plan to evaluate potential risks and investigate potential discharges identified.	1. Maintain a written IDDE Program by reviewing annually and modifying as needed	1. Annually	1. Yes/No
		2. Evaluate and assess the IDDE Program to ensure compliance with the permit.	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.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
# 7.5	IDDE Tracking System			

Table 15: Illicit Discharge Detection and Elimination BMPs

	Maintain a tracking system for observed IDDE violations and follow-up actions in order to identify hot-spot areas, chronic violators, and recurring issues. Tracking form to include observed illicit discharge indicators, date, location, and contacts made.	2. Maintain a tracking database to collect data from Potential Illicit Discharge Form and to report any follow-up actions taken.	2. Ongoing	2. Report number of potential discharges tracked
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
# 7.6	Staff Training			
	Provide educational information to City employees regarding the hazards associated with illicit discharges, illegal dumping, and improper disposal of waste. Include the appropriate actions for reporting suspect discharges.	1. Provide IDDE training for city staff that are in the field as part of their regular responsibilities.	1. Annually	1. Report the number of staff trained
		2. Provide reporting mechanisms in the event they detect a potential illicit discharge.	2. Ongoing	2. Yes/No
# 7.7	IDDE Information on Website			
	Provide IDDE information on City stormwater webpage. Include the appropriate actions for reporting suspect discharges.	1. Include IDDE information on webpage	1. Ongoing	1. Yes/No
Permit Ref.	3.4.6: IDDE Reporting Measures for the public and staff to report illicit discharges, illegal dumping and spills. The mechanism shall be publicized to facilitate reporting and shall be managed to provide rapid response by appropriately trained personnel.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
# 7.8	Stormwater Hotline			
	Maintain a Stormwater Hotline for citizens to report stormwater issues.	1. Maintain a hotline phone number and responsible party.	1. Ongoing	1. Yes/No
# 7.9	Stormwater Page on City's Website			

Table 15: Illicit Discharge Detection and Elimination BMPs

	Provide information on the City's website regarding illicit discharges, illegal dumping, and spills. Advertise the stormwater hotline as the method to report suspect discharges.	1. Maintain the webpage by providing new information and updating information.	1. Review quarterly and update as needed	1. Yes/No
--	---	--	--	-----------

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, the City of Statesville relies upon the North Carolina Sedimentation Pollution Control Act (SPCA) of 1973 and the NCG010000 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	Iredell County Erosion and Sediment Control Program*	15A NCAC Chapter 04	Iredell County	Whole

* The local Erosion and Sediment Control Program ordinance(s)/regulatory mechanism(s) can be found at: <http://www.co.iredell.nc.us/DocumentCenter/View/13782/Appendix-H-Soil-Erosion-and-Sedimentation-Control-Ordinance>

The City of Statesville 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
# 8.1	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. Annually	1. Yes/No
# 8.2	Stormwater Hotline			
	Maintain a stormwater hotline for citizens to report sediment and erosion issues.	1. Maintain a hotline phone number and responsible party.	1. Ongoing	1. 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

Table 17: Construction Site Runoff Control BMPs

# 8.3	Require Construction Site Operators to Control Waste			
	Implement measures that ensure construction site operators control waste. Measures will include implementation of approved Erosion and Sediment Control Plans, site inspections, and enforcement.	1. Maintain a Memorandum of Understanding with Iredell County.	1. Ongoing	1. 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 City of Statesville 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 City of Statesville 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	N/A	N/A

The City of Statesville 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

The following table lists the municipal ordinances, codes, and documents applicable to the Post-Construction Program.

Permit Requirements for Plan Review and Approval	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(a) Authority	Post Construction Runoff Ordinance UDO Section 8.05 Stormwater Management	05/06/2019
3.6.3(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	Iredell County Land Development Code Appendix H Soil Erosion and Sedimentation Control Ordinance	11/19/2019
3.6.3(b) Plan Review	Post Construction Runoff Ordinance UDO Section 8.05 Stormwater Management	05/06/2019
3.6.3(c) O&M Agreement	Statesville Drainage Design Manual	07/01/2019
3.6.3(d) O&M Plan	Statesville Drainage Design Manual	07/01/2019
3.6.3(e) Deed Restrictions/Covenants	Post Construction Runoff Ordinance UDO Section 8.05 Stormwater Management	05/06/2019
3.6.3(f) Access Easements	Statesville Drainage Design Manual	07/01/2019
Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(b) Documentation	Statesville Drainage Design Manual	07/01/2019
3.6.2(c) Right of Entry	Statesville Drainage Design Manual	07/01/2019
3.6.4(a) Pre-CO Inspections	Statesville Drainage Design Manual	07/01/2019
3.6.4(b) Compliance with Plans	Statesville Drainage Design Manual	07/01/2019
3.6.4(c) Annual SCM Inspections	Statesville Drainage Design Manual	07/01/2019
3.6.4(d) Low Density Inspections		
3.6.4(e) Qualified Professional	Statesville Drainage Design Manual	07/01/2019
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.6(a) Pet Waste	Code of Ordinances, Chapter 3 Animals, Section 3-4.1 – Animal Sanitation	05/01/2006
3.6.6(b) On-Site Domestic Wastewater Treatment	UDO Section 8.04 – Private (On-Site) Wastewater Systems	05/06/2019

The City of Statesville will first establish the legal authority to require O&M Plans and perform post-construction inspection of low-density sites. Then the City will exercise that authority through the enforcement, inspection, and documentation of the full post construction program.

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
# 9.1	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 (low-density following establishment of inventory)	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 (low-density following establishment of inventory)	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, following establishment of inventory	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, beginning in permit year 5	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.

Table 20: Post Construction Site Runoff Control BMPs

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
# 9.2	UDO 8.05 – Stormwater Management			
	Maintain an ordinance providing authority to require stormwater to be managed for developed areas.	1. Maintain an enforceable ordinance	1. Ongoing	1. Report Status (yes/no)
# 9.3	Drainage Design Manual			
	Maintain a Drainage Design Manual with requirements for design, permitting, and inspection to ensure adequate stormwater control measures for development. See Table 19	1. Review the Drainage Design Manual annually and revise as needed.	1. Annually	1. Report date reviewed and any updates made.
		2. Make the design manual available to developers	2. Ongoing	2. Yes/No
Permit Ref.	3.6.3: Plan Review and Approval Measures to maintain plan review and approval authority, standards and procedures to: (a) Require Federal, State, and local government projects to comply with Post-Construction Program requirements throughout the entire MS4 permitted area, unless the entity is subject to its own NPDES MS4 permit or a qualifying alternative program, (b) Conduct site plan reviews of all new development and redeveloped sites that disturb greater than or equal to one acre, and sites that disturb less than one acre that are part of a larger common plan of development or sale for compliance with 15A NCAC 02H .1017 and the qualifying alternative programs that apply within your jurisdiction, (c) Ensure that each project has an Operation and Maintenance Agreement that complies with 15A NCAC 02H .1050(12), (d) Ensure that each project has an Operation and Maintenance Plan that complies with 15A NCAC 02H .1050(13), (e) Ensure that each project has recorded deed restrictions and protective covenants, that require the project to be maintained consistent with approved plans, and (f) Ensure that each SCM and associated maintenance accesses be protected in a permanent recorded easement per 15A NCAC 02H 1050 (9) and (10).			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
# 9.4	Plan Review and Approval Authority			

Table 20: Post Construction Site Runoff Control BMPs

	Review Stormwater Ordinance to ensure it provides authority to accomplish the purpose outlined in 3.6.3 of the permit. Provide plan review and approval to ensure adequate stormwater control measures for development. See Table 19	1. Review ordinance and evaluate plan review procedures.	1. Annually	1. Yes/No
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.	Animal Sanitation Ordinance			
	Maintain an ordinance requiring pet waste to be managed.	1. Maintain an enforceable ordinance	1. Ongoing	1. Report Status (yes/no)

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the City of Statesville 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 City of Statesville 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
# 10.1	Inventory of Municipal Facilities			
	Develop and maintain an up-to-date inventory of municipal facilities with potential to generate polluted runoff.	1. Maintain list of existing City-owned facilities	1. Ongoing	1. Yes/No
# 10.2	Facility Inspections			

Table 21: Pollution Prevention and Good Housekeeping BMPs

	Inspect City-owned facilities to confirm good housekeeping practices are being followed. Confirm that facilities with individual industrial permits are in compliance. Establish frequencies, schedules, and documentation mechanisms for inspections at each facility.	1. Inspect facilities according to established frequencies	1. Ongoing	1. Yes/No
# 10.3	Staff Training			
	Provide staff training on general stormwater awareness and pollution prevention & good housekeeping for all staff at City-owned facilities with potential for polluted runoff.	1. Provide training to facility staff at each facility on general stormwater awareness and pollution prevention and good housekeeping practices.	1. Annually	1. Report the number of staff 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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
# 10.4	Inventory of Facilities with Spill Potential			
	Maintain an inventory of city facilities and operations storing materials that would be pollutant if spilled and discharged to the stormwater system.	1. Maintain list of facilities storing pollutant materials	1. Annually	1. Yes/No
# 10.5	Spill Response Procedures			
	Maintain a Standard Operating Procedure (SOP) for spill response and provide training to all staff working at facilities with spill potential.	1. Maintain SOP for spill response	1. Ongoing, update as needed.	1. Report Status (yes/no) and any revisions
		2. Provide training to staff at facilities with spill potential	2. Annually	2. Report the number of staff trained
		3. Inspect and maintain spill response kits where provided.	3. Annually, and after each incident requiring use of a spill kit	3. 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.			
	A	B	C	D

Table 21: Pollution Prevention and Good Housekeeping BMPs

BMP No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
# 10.6	Staff Training			
	Provide staff training for general stormwater pollution prevention to public works department employees. Develop a training program with training frequencies and agenda.	1. Provide training to all existing staff identified in training program 2. Provide training to all new hires for positions identified in training program.	1. Annually 2. As needed when new staff are hired	1. Report the number of staff trained 2. Report the number of staff trained
# 10.7	MS4 System Inspections and Maintenance			
	Develop a plan for MS4 system maintenance. Plan should include regular inspections. Perform regular inspections in accordance with the SOP.	1. Develop a SOP for MS4 system inspections and maintenance. Include inspection schedules, documentation, and staff responsibilities.	1. Year 2	1. Yes/No
		2. Perform regular inspections after mapping is complete	2. Year 4 and 5	2. Yes/No
3. Verify, document, and prioritize maintenance activities identified by inspections or citizen reports.		3. Ongoing	3. 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
# 10.8	Inventory of Municipal SCMs			
	Maintain an inventory of City-owned SCMs.	1. Maintain an inventory of City-owned SCMs, including type, year built, date of last inspection, and maintenance history.	1. Ongoing	1. Report Status (yes/no)
# 10.9	SCM Inspection and Maintenance			
	Perform and document regular inspections and maintenance of City-owned SCMs.	1. Maintain a GIS layer of City-owned SCMs with the MS4 map	1. Ongoing	1. Yes/No

Table 21: Pollution Prevention and Good Housekeeping BMPs

		2. Maintain a SOP for SCM inspections and maintenance. Include inspection schedules, documentation, and staff responsibilities.	2. Ongoing	2. Report Status (yes/no)
		3. Maintain a standard SCM Inspection Form	3. Ongoing	3. Report Status (yes/no)
		4. Inspect each device in accordance with SOP and standard inspection form.	4. Annually	4. Report number of SCMs inspected
		5. Perform maintenance tasks identified in inspections.	5. As needed	5. Yes/No
		6. Maintain a tracking system to document SCM inspections and maintenance.	6. Ongoing	6. Report Status (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
# 10.10	Pesticide, Herbicide, Fertilizer Applicator Training			
	Train City staff who apply landscape chemicals in order to minimize water quality impacts from pesticides, herbicides, and fertilizers.	1. Provide certification training for appropriate staff.	1. Ongoing	1. Report number of staff with state certification.
		2. Maintain SOP for chemical use, storage and handling to reduce impact of chemical pollution.	2. Ongoing	2. Report status (yes/no)
		3. Provide staff training in pollution prevention and chemical use, storage and handling	3. Annually	3. Report the number of 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

Table 21: Pollution Prevention and Good Housekeeping BMPs

# 10.11	NPDES Industrial Permit Compliance			
	Ensure the NPDES industrial permit compliance occurs at all applicable municipally owned sites.	1. Maintain a list of all City-owned facilities with NPDES industrial permits.	1. Ongoing	1. Report number of facilities
		2. Perform facility inspections for compliance with permit.	2. Annually	2. Yes/No
		3. Maintain a tracking mechanism to document municipal owned facilities with permits, permit status, and inspection dates.	3. Ongoing	3. Yes/No
# 10.12	Vehicle and Equipment Cleaning & Maintenance Facility Inspection			
	Inspect vehicle and equipment cleaning and maintenance facilities to ensure facilities are following proper procedures to minimize water quality impacts from facility operations.	1. Maintain a facility inspection checklist.	1. Ongoing	1. Yes/No
		2. Perform inspections and report any corrective actions required.	2. Annually	2. Yes/No
		3. Perform follow-up inspections if corrective actions were required.	3. As needed	3. Yes/No
		4. Provide general stormwater awareness training to staff assigned to vehicle maintenance facilities.	4. Annually	4. Report the number of staff trained
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
# 10.13	Street Sweeping			
	Provide street sweeping in order to reduce pollutants from the City owned and maintained streets. Maintain a SOP for street sweeping that includes a schedule and plan to document. Maintain a tracking mechanism to document street sweeping operations.	1. Sweep streets in accordance with the SOP	1. Ongoing	1. Report number of street miles swept
# 10.14	Leaf Collection			

Table 21: Pollution Prevention and Good Housekeeping BMPs

	Provide periodic collection of leaves from residential and public areas to reduce leaf litter pollutants and clogging of storm inlets. Maintain a SOP for leaf collection that includes a schedule and plan to document. Maintain a tracking mechanism to document leaf collection operations.	1. Collect leaves in accordance with the SOP	1. Ongoing	1. Report tons of leaves collected
# 10.15	Vehicle Spill Cleanup			
	Provide vehicle spill cleanup response as needed to prevent pollutants from vehicular accidents from entering the MS4. Maintain SOP for vehicle spill response.	1. Provide training to staff responding to vehicle accidents	1. Annually	1. Report the number of staff trained
2. Inspect and maintain spill kits where provided		2. Annually, and after each incident requiring use of a spill kit	2. Yes/No	