

TOWN OF WAYNESVILLE BOARD OF ALDERMEN
REQUEST FOR BOARD ACTION
Meeting Date: December 14, 2021

SUBJECT: Public Hearing and Presentation on the Town of Waynesville’s Stormwater Program.

AGENDA INFORMATION:

Agenda Location: New Business
Item Number:
Department: Development Services
Contact: Olga Grooman
Presenters: Olga Grooman, Planner, Development Services
Eric Romaniszyn, Executive Director, Haywood Waterways
Sam Cullen, Code Enforcement Official, Development Services

BRIEF SUMMARY:

The Town of Waynesville holds the National Pollutant Discharge Elimination System Permit (NPDES) issued by the NC Department of the Environmental Quality (NC DEQ) on August 19, 2021. The permit is valid for five (5) years. The main focus of the permit is to manage stormwater runoff, reduce the discharge of pollutants, and protect water quality within the Town’s jurisdiction. In North Carolina, it is required that a permit holder develops a comprehensive Stormwater Management Plan that addresses the following “Six (6) Minimum Measures” to stay in compliance:

1. Public education and outreach
2. Public participation/involvement
3. Illicit discharge detection and elimination
4. Construction site stormwater runoff control
5. Post-construction runoff control
6. Pollution prevention/good housekeeping

One of the requirements of the permit is to “provide mechanisms for public input on stormwater issues and stormwater program.” The purpose of today’s presentation is to educate the Board and the public about the Town’s Stormwater Program, address common stormwater issues, describe ongoing projects, and steps taken to achieve compliance with the permit. This public hearing is an opportunity for the Board and public to provide feedback, ask questions, and share their concerns.

MOTIONS FOR CONSIDERATION:

None.

FUNDING SOURCE/IMPACT:

The Town’s Stormwater program is administered by the Town’s Development Services Department and Public Services Department with assistance from Haywood Waterways. Additionally, the Town may contract for engineering services for the purpose of review of engineered stormwater plans.

ATTACHMENTS:

1. Power Point Presentation
2. Sample Annual Stormwater Inspection Letter
3. Sample Inspection Form
4. GIS Map of Stormwater Control Measures (SCMs)
5. GIS Map- Detailed SCM Information
6. Sample Operations & Maintenance Agreement
7. Outfalls Map
8. Illicit Discharge/Connection Reporting Form

MANAGER'S COMMENTS AND RECOMMENDATIONS:

TOWN OF WAYNESVILLE STORMWATER PROGRAM

AND LOCAL STORMWATER ISSUES

Presented by:

Olga Grooman, Development Services

Eric Romaniszyn, Haywood Waterways

Sam Cullen, Development Services



Stormwater Issues:

- Proper Oil Disposal: cool- store- dispose
- Sediment Pollution
- Trash and Chemicals disposal
- Impaired water quality
- Thermal stress and household runoff



Public Education and Outreach

- Postcards
- Public displays
- Press releases
- Social media
- Public presentations
- Webpages
- Hotline



Help Keep Trash Out of Our Waterways

All stormdrains in Waynesville transport untreated stormwater to Richland Creek and its tributaries. When trash enters storm drains it ends up in our streams.

Facts:

- 75% of trash on land ends up in a waterway.
- Each day a person drives or walks by 12,000 pieces of trash.
- 80% of ocean trash comes from land (20% from shipping and cruise lines)
- Trash harms wildlife, interferes with recreation, reduces land value, and deters tourism.



Solutions:

- When hauling trash make sure it's secure and cover it with a tarp.
- Place trash in a receptacle with a secure lid.
- Don't overflow trash cans.
- Join a local stream or road cleanup.



For more information about protecting our waterways visit:

<http://www.waynesvillenc.gov/departments/development-services/stormwater-management>



Stormwater Management

Department Menu

- Permits and Application Forms
- Building Inspections
- Code Enforcement
- Land Use (Zoning) Ordinances
- Planning
- Planning Documents, Reports & Maps
- Comprehensive Plan Updates
- Meeting Schedule & Application Deadlines
- Stormwater Management
- Full Fee Schedule 2020/2021
- Frequently Asked Questions
- Information on Spanish/Information in Spanish

The Town of Waynesville utilizes its [Stormwater Management Plan](#) to improve local water quality and comply with the [National Pollutant Discharge Elimination System Permit](#) (NPDES) and the applicable provisions of the [Clean Water Act](#). The Stormwater Management Plan comprises Public Education and Outreach, Public Participation, Construction Site Runoff Controls, Post-Construction Site Runoff Controls, IDDE (Illicit Discharge, Detection and Elimination), Pollution Prevention and Good Housekeeping, and Annual Self-Assessments. The goal of the stormwater program is to preserve, restore, and protect local waterways as well as address the needs of the local community.

[Town of Waynesville MS4 Public Education Poster](#)

Stormwater questions or to report an **illicit discharge**:

Development Services: email: efcague@waynesvillenc.gov or call: (828) 456-8547

Monday to Friday, 9 am - 5 pm

Haywood Waterways: email: info@haywoodwaterways.org or call: (828) 476-4667 EXT 10

Holidays and After Hours

Call: (828) 456-5363

Public Participation and Involvement

- Public meetings
- Webpages
- Hotline
- Stream clean-ups / Adopt A Stream
- Storm drain stenciling



Waynesville
NORTH CAROLINA

About News Events Contact How Do It?

Services Residents Visitors Businesses Departments Government

Home / Departments / Development Services

Stormwater Management

Department Menu

- Permits and Application Forms
- Building Inspections
- Code Enforcement
- Land Use (Zoning) Ordinances
- Planning
- Planning Documents, Reports & Maps
- Comprehensive Plan Updates
- Meeting Schedule & Application Deadlines
- Stormwater Management
- Full Fee Schedule 2020/2021
- Frequently Asked Questions
- Información en Español/Information in Spanish

The Town of Waynesville utilizes its [Stormwater Management Plan](#) to improve local water quality and comply with the [National Pollutant Discharge Elimination System Permit](#) (NPDES) and the applicable provisions of the [Clean Water Act](#). The Stormwater Management Plan comprises Public Education and Outreach, Public Participation, Construction Site Runoff Controls, Post-Construction Site Runoff Controls, IDDE (Illicit Discharge, Detention and Elimination), Pollution Prevention and Good Housekeeping, and Annual Self-Assessments. The goal of the stormwater program is to preserve, restore, and protect local waterways as well as address the needs of the local community.

[Town of Waynesville MS4 Public Education Poster](#)

Stormwater questions or to report an illicit discharge:

Development Services: email: eteague@waynesvilenc.gov or call: (828) 456-8647

Monday to Friday, 8 am - 5 pm

Haywood Waterways: email: info@haywoodwaterways.org or call: (828) 476-4667 EXT 10

Holidays and After Hours Call: (828) 456-5363



History of Water Quality Regulations

- 1970 EPA established
- 1972 Clean Water Act regulates discharges, establishes national water quality criteria
- **NPDES permit required:**
 - 1990 Phase I Stormwater (> 100,000 population)
 - 1999 Phase II Stormwater (small MS4s)
- **Goals:** to reduce the discharge of pollutants, manage runoff, and protect water quality



NPDES and MS4

- **NPDES**- National Pollutant Discharge Elimination System
- **MS4**- Municipal Separate Storm Sewer System, a conveyance or system of conveyances that is:
 - owned by a state, city, town, village, or other public entity that discharges to waters of the US,
 - designed or used to collect or move stormwater (storm drains, pipes, ditches),
 - NOT a combined sewer,
 - not a part of a sewage treatment plant.



NPDES Permit Requirements

Develop a comprehensive Stormwater Management Plan (SWMP) to address six Minimum Control Measures:

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination (IDDE)
4. Construction Site Runoff Controls
5. Post-Construction Runoff Control Program
6. Pollution Prevention/ Good Housekeeping

+ Program Administration (logging, annual self assessments to the NCDEQ)

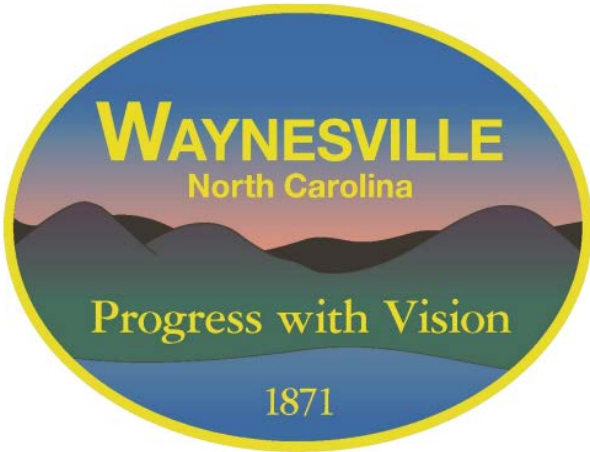


Town of Waynesville Website → Departments → Development Services → Stormwater Management page (on the sidebar)

<https://www.waynesvillenc.gov/departments/development-services/stormwater-management>

Stormwater Management Plan
Town of Waynesville
NCS000501

Approved: June 28, 2021



N.C. Division of Energy, Mineral and Land Resources
(DEMLR)

Stormwater Management
Program Assessment

512 N.Salisbury Street , Raleigh NC 27604

STATE of NORTH CAROLINA
DEPARTMENT of ENVIRONMENTAL QUALITY
DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES

PERMIT NO. NCS000501
TO DISCHARGE STORMWATER UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended,

The Town of Waynesville

is hereby authorized to discharge stormwater from their municipal separate storm sewer system located:

within the corporate limits of the Town of Waynesville
in
Haywood County

to receiving waters; Richland Creek, Hyatt Creek, Allens Creek, Shelton Branch, Browning Branch, Camp Branch, Plott Creek, Eaglenest Creek, Farmer Branch, Shingle Cove Branch, Raccoon Creek, Factory Branch, and Mauney Cove Branch, and unnamed tributaries within the French Broad River Basin in accordance with the discharge limitations, monitoring requirements, and other conditions set forth in Parts 1 through 8, hereof.

This permit shall become effective August 19, 2021.

This permit and the authorization to discharge shall expire at midnight on June 30, 2026.

Signed this day August 19, 2021.

for Brian Wrenn, Director
Division of Energy, Mineral, and Land Natural Resources
By the Authority of the Environmental Management Commission

Post-Construction Stormwater Management

- **Stormwater Ordinance: LDS Section 12.5.**
 - Establishes minimum post-development stormwater management standards.
 - Ensures that all Stormwater Control Measures (SCMs), such as detention ponds, underground detention systems, rain gardens, are properly maintained and functioning as designed.
-
- **Projects:**
 - Disturb 1 acre or more
 - Smaller area, but part of the larger project of 1+ acres
 - Disturb <1 acre with 24,000 sq ft of impervious surface
 - Private and Town-owned SCMs



Post-Construction Stormwater Management

- **LDS Section 12.5.11:** Annual Inspection Requirement.
- The Stormwater Control Measures shall be inspected annually to continue their function in controlling stormwater runoffs to the extent they were originally designed. An inspection can be performed by a qualified service provider, such as a North Carolina professional engineer, landscape architect, or a person certified by the North Carolina Cooperative Extension Service for stormwater inspection and maintenance.
- **SW Management Plan:** inventory of SCMS, inspections, documentation, and tracking mechanisms, issue letters of notification.
 - 2021: 17 properties. As of 12/03/2021- 8 completed.
 - Sample Letter: Exhibit 1
 - Sample Inspection Form: Exhibit 2
 - GIS Mapping: Exhibits 3-4
 - Excel Log
 - Operations and Maintenance Agreements: Exhibit 5
- Blank forms are available on the Stormwater Page



Municipal Post-Construction Stormwater Management

SW Management Plan: BMPs #49, 50; p. 36-47.

- Inventory of Town-owned SCMs
- Operation & Maintenance Plans
- Mapping
- Certification for personnel
- SCM inspection forms
- Annual inspections
- Maintenance tasked performed and logged



TOWN OF WAYNESVILLE, NC

STORMWATER CONTROL MEASURES (SCM) OPERATION & MAINTENANCE PLAN

This Operation and Maintenance (O&M) Plan has been prepared by the Town of Waynesville Development Services to address stormwater control measure (SCM) operation and maintenance requirements for Permit No. NCS000501 To Discharge Stormwater Under the National Pollutant Discharge Elimination System. This plan shall be evaluated annually and updated as necessary.

This O&M Plan addresses SCMs by describing the activities and procedures the Town of Waynesville will implement so that SCMs are properly maintained to ensure on-going functionality and reduce the potential for discharge of pollutants from the MS4. The O&M Plan outlines inspection and maintenance procedures for structural stormwater control measures (SCMs) owned by the Town of Waynesville, NC.

This O&M Plan is applicable to the following Town owned SCMs:

Town Owned SCMs	
Dry detention pond #1	Fire Station #1
Dry detention pond #2	Fire Station #1
Dry detention pond #3	Fire Station #1
Rain Garden	Waynesville Greenway, Parks and Recreation
Sub. Station Dry detention pond	Public Works, Electric Department

All SCMs, as required by the Town's Stormwater Ordinance, must have a signed Operation and Maintenance Agreement on file with the Town of Waynesville Development Services. Each individual municipal facility with SCMs also maintains a signed copy of the O&M Agreements.

The Operation and Maintenance Agreement outlines necessary operation and maintenance procedures that must be followed to ensure the ongoing function of all Town owned SCMs.

Attached are O&M procedures for typical SCMs approved for installation by Town of Waynesville.

Illicit Discharge Detection and Elimination Program

- The purpose of the Town's IDDE Program is to prohibit, detect, and eliminate illicit connections, discharging, illegal dumping, and spills into the MS4. The program also focuses on staff training and public awareness of illicit discharges, improper disposal of waste, and reporting procedures.

- IDDE Plan: submit to the State for approval
- Outfall mapping and Inspections: Exhibit 6
- Reporting Form: Exhibit 7
- Track NOVs: GIS map and Excel log
- Train staff
- Website



- Update Stormwater and Illicit Discharge ordinances once per permit term (5 years) to maintain adequate legal authority: this winter.

Pollution Prevention and Good Housekeeping

- Focus on municipal operations, such as Public Works
- Facility inspections: fleet and facility
- Standard Operating Procedures for leaf collection, street sweeping, stormwater asset inspections and maintenance (outfalls, culverts, drains)
- Spill procedures
- Staff training: spills and good housekeeping practices. Develop a training program. Annual trainings.



Why Do We Need a Stormwater Program?

Do you like to...

Swim



Fish



Had you rather swim in

This



Or This



Why Do We Need a Stormwater Program?

Had you rather fish in...

This



Or
This



An aerial photograph of a dense urban skyline, likely New York City, featuring numerous skyscrapers and buildings. A white rectangular frame is overlaid on the center of the image, containing the text "Municipal Stormwater Projects".

Municipal Stormwater Projects



Fire Station 1 and
Calhoun road substation









Waynesville Greenway Rain Garden







Stormwater Hotline: 1-866-STOP-MUD

Concerns, questions, or comments about stormwater issues or program?