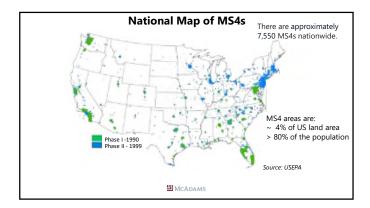
The information provided here is for informational and educational purposes and current as of the date of publication. The information is not a substitute for legal advice and does not necessarily reflect the opinion or policy position of the Municipal Association of South Carolina. Consult your attorney for advice concerning specific situations.

DON'T LET STORMWATER BE DRY Annette Lucas PE SCASM Meeting – September 7, 2023

MCADAMS



WHAT ARE MS4 ENTITIES REQUIRED TO DO?

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

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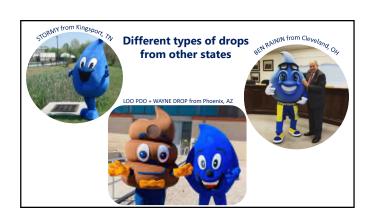




#1 INSPIRE + ENTERTAIN











City of Greensboro: H2O Exhibit at the GreenHill Art Center

A multi-dimensional, large scale art show that reflects on how human activities affect a precious and limited natural resource.



City of Hendersonville: Stormwater Stroll

A series of stormwater projects in Patton Park with educational signage to engage + teach park visitors about water quality.



■ McAdams

- Two rainwater cisterns that provide water to wash vehicles + equipment.
- A series of rain gardens that with pollinator plants.
- Permeable pavement near the park's entrance.
- A stormwater wetland that improves the bird, pollinator, and wildlife habitat.





Town of Fuquay-Varina: You Know What Else Is Important Video Series

Find out what Storm Walter has to tell you about how to prevent stormwater pollution through a series of misadventures..



Fuquay-Varina + Amazing Studios

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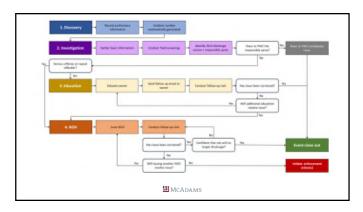


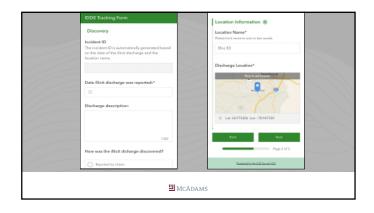
STORMWATER WON'T BE DRY IF YOU

#2 LEVERAGE TECHNOLOGY

















#3 CREATE COMMUNICATION CHANNELS









#4 EVALUATE + UPDATE

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What is the purpose of a stormwater ordinance?

- a. To scare the development community
- b. To demonstrate the community's grasp of legal jargon
- c. To clearly communicate stormwater requirements
 - Fewer questions for your team
 - Fewer complaints / misunderstandings
 - Better submissions that are easier to approve

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Falla Lake
Basin
Lower Neuse Basin
Jordan Lake Basin

TIPS ON CLEAR ORDINANCES

Overall: Outline + organize if needed

Resolve different requirements when Content:

zoning + state rules overlap to create a

"one-stop shop."

Details: Clear titles for each item

Plus: Don't forget the administrative manual

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OUTLINE + ORGANIZE

OLD:

Sec. 14-150: Definitions

Sec. 14-151: Purpose Sec. 14-152: General Provisions

Sec. 14-153: Enforcement + Administration

Sec. 14-154: Exemptions

Sec. 14-155: Design + Performance Stds Sec. 14-156: Plan Submission procedures Sec. 14-157: Permit Requirements Sec. 14-158: As-built Plans + Certification

NEW:

Sec. 14-150: Definitions Sec. 14-151: Purpose + A Sec. 14-152: Applicability Purpose + Administration Applicability + Exemptions

Sec. 14-153: General SW Stormwater Management Sec. 14-154: Falls Lake Basin

Sec. 14-155: Neuse Basin Outside of Falls Lake Watershed Sec. 14-156: Jordan Lake Basin

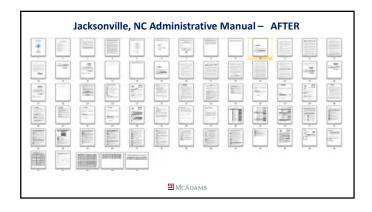
Sec. 14-157: Requirements for Design of SCMs Sec. 14-158: Approval of Stormwater CDs

Sec. 14-159: Operational Stormwater Permit

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Sec. 82-92. Establishment of application requirements, schedule, and fees.

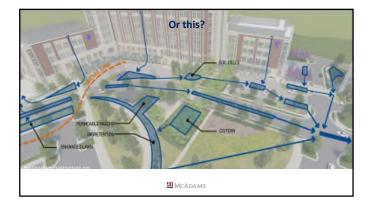
- (a) Application contents and form. The stormwater administrator shall establish requirements for the content and form of all applications and shall amend and update those requirements from time to time.
- (b) Submission schedule. The stormwater administrator shall establish a submission schedule, deadlines, and submittal checklist for applications.
- (c) Permit review fees. The Town board of commissioners shall establish permit review fees as well as policies regarding refund of any fees upon withdrawal of an application and may amend and update the fees and policies from time to time.











#5 FOCUS ON THE FUTURE

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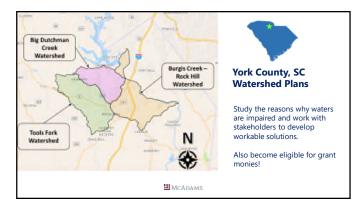
WATERSHED PLANS IN SC

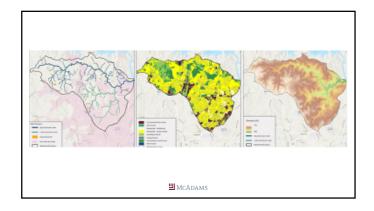
- 12-digit HUCs
- About 20 pages
- Includes maps, tables, photos
- Intended to be used for several decades but needs to be regularly updated
- Opportunity to educate the community about WQ issues and get them involved in the solutions.
- Also opens options for grant funding

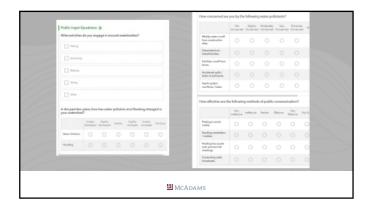
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THE NINE ELEMENTS OF A WATERSHED PLAN

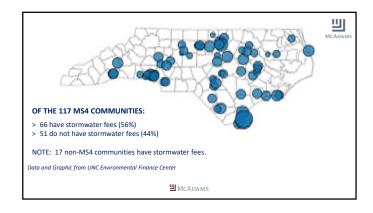
- 1. Identify pollutant sources + causes
- 2. Estimate load reductions from management measures
- 3. Management measures needed to address pollutants
- 4. Identify funding + technical assistance needs
- 5. Outreach strategy
- 6. Implementation timeline
- 7. Milestones to keep progress on track
- 8. Criteria to determine if pollutants are being reduced
- 9. Monitoring strategy to determine effectiveness of plan

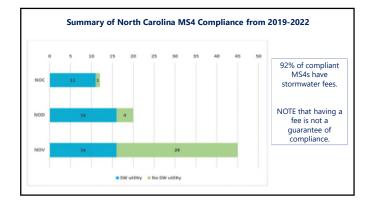












- #1 INSPIRE + ENTERTAIN
- #2 LEVERAGE TECHNOLOGY
- #3 CHANNEL YOUR COMMUNICATION
- #4 EVALUATE + UPDATE
- #5 FOCUS ON THE FUTURE

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