

Creative Regional Solutions Since 1968

Western Piedmont Stormwater Partnership Education and Outreach Public Involvement and Participation

April 5, 2019

Western Piedmont Water Resources Committee





Stormwater Trainings





Stormwater Partnership



Creative Regional Solutions Since 1968











Teacher Workshops









Teacher Workshops – Project WET





STEM West









School Presentations









STEM Tours





STEM Presentations

March 16, 2018 - River Bend Middle School March 28, 2018 - Mill Creek Middle School April 13, 2018 - Maiden Middle School April 19, 2018 - Arndt Middle School Oct 4, 2018 - Newton Conover Middle School Oct 30, 2018 - Grandview Middle School



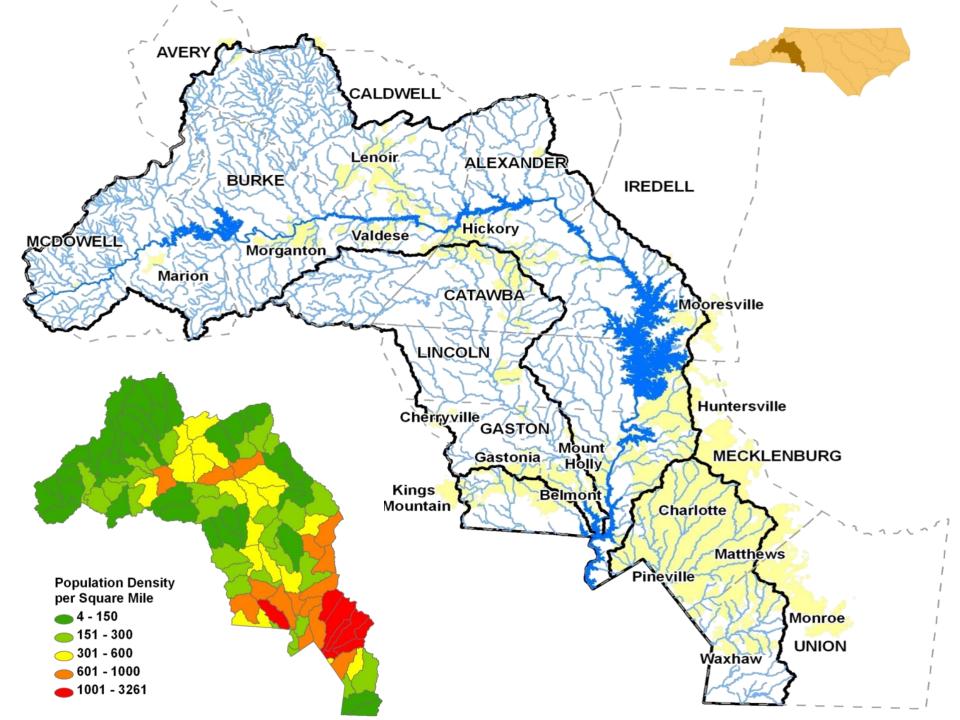


STEM Presentations

March 1, 2019 - Jacobs Fork Middle School March 8, 2019 - Maiden Middle School March 22, 2019 - River Bend Middle School April 4, 2019 - Arndt Middle School April 18, 2019 - Mill Creek Middle School







Nonpoint Sources

Agriculture

Stormwater







Forestry

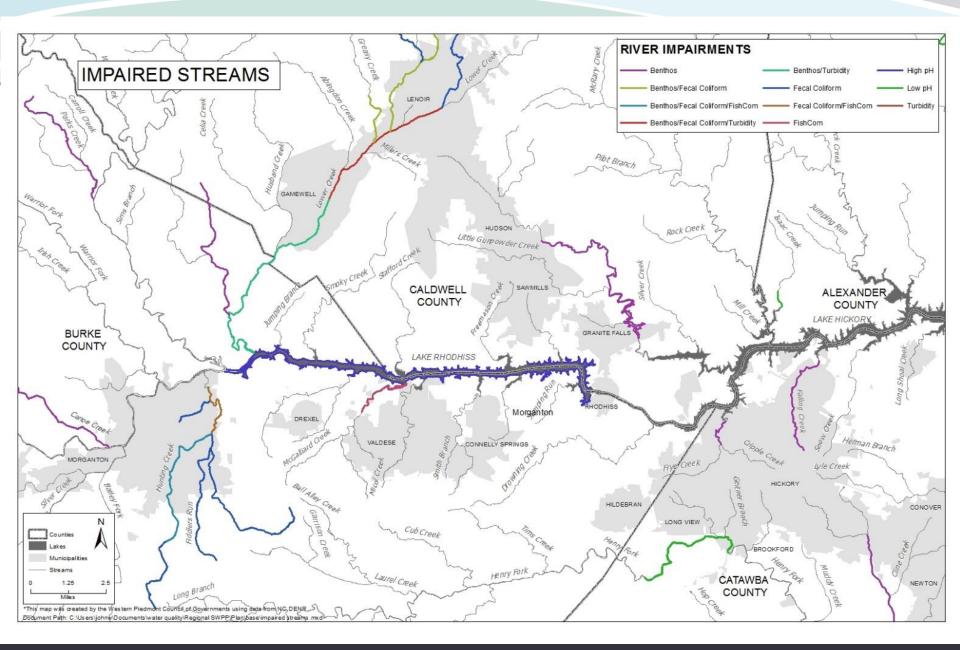




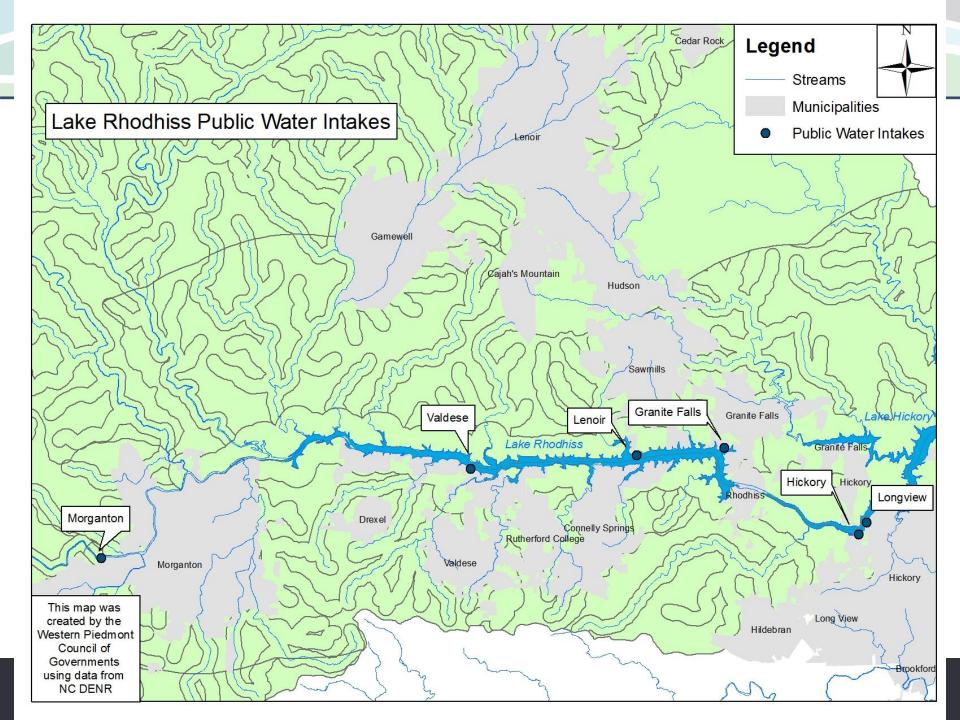
Construction

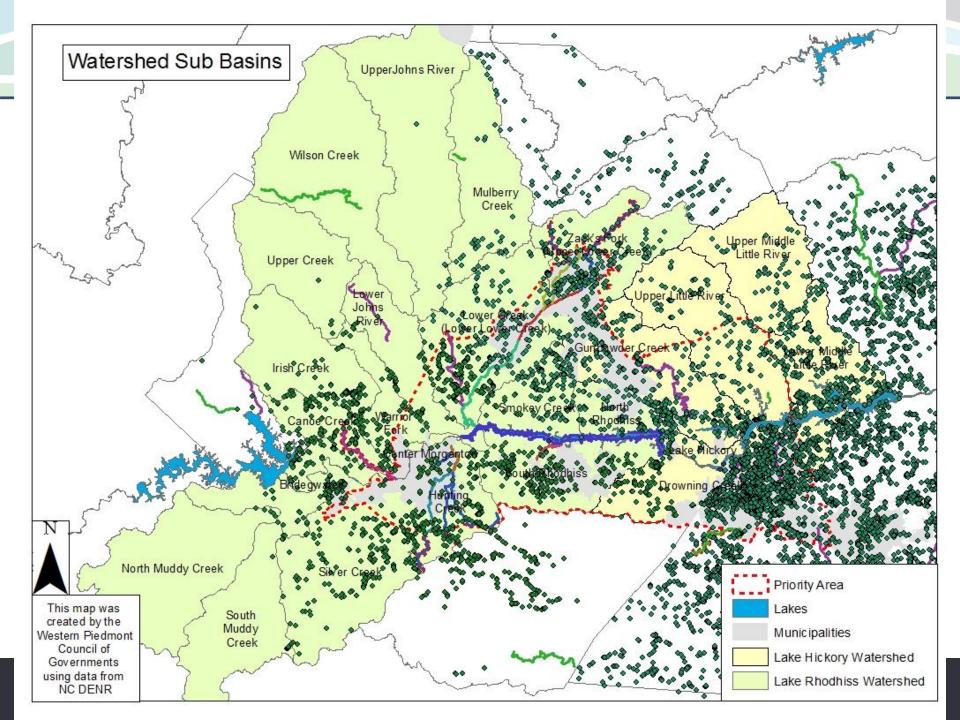












Stormwater: Where does it go?





Stormwater: Where does it go?





Stormwater Impacts on Water Quality

Decreased Quality

- Nutrients
- Sediment Flush
- Pathogens
- Toxic Contaminants
- Debris
- Thermal Stress

Results in Impacts to Aquatic Resources

Stormwater Impacts on Water Quantity





1 inch rainfall on 1 acre of woods = no runoff.

The same one inch of rainfall on 1 acre of asphalt will produce over **27,000 gallons** of runoff.

R. Rozzelle, Mecklenburg Co.

Capture Rainwater









Make your own!



Properly Dispose of Pet Waste



•Only 40% of NC dog owners pick up after pets

•Average dog waste = ~¼ lb per day

<u>Problems with excess waste</u>: Exposure to parasites Exposure to bacteria like *E. coli* and other pathogens Excess nutrients cause algal blooms



Watch Your Water

- Adopt a Storm Drain or two!
- Help keep pollution out of water!
 - Automobile fluids
 - Pet Waste
 - Fertilizers
 - Pesticides
 - Litter
 - Leaves, too!
 - Paint





School Participation







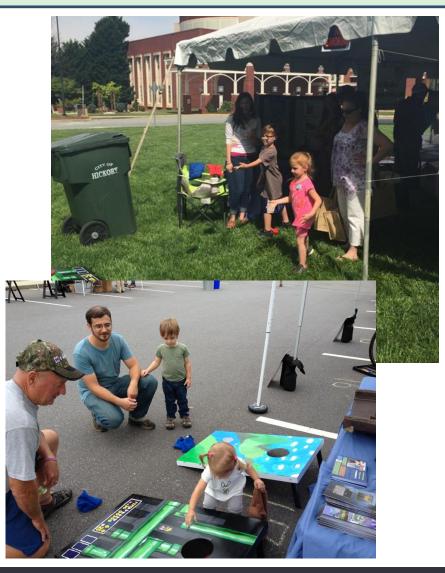




Earth Day









Enviroscape Model







5th Annual WNC Water Quality Conference Details Thursday, July 26, 2018

Sponsored by:

Reese Institute for Conservation of Natural Resources, Lenoir-Rhyne University

Western Piedmont Council of Governments

Western Piedmont Water Resources Committee

Western Piedmont Storm Water Partnership



9:35 A.M. to 10:20 A.M. "The Catawba River Nutrient Study" | Speaker: Brian Wrenn, Ecosystems Branch Chief, NC Division of Water Resources





10:25 A.M. to 11:00 A.M. "Riparian Buffer Rule Changes" Speaker: Sue Homewood, NC Division of Water Quality/Resources





11:15 A.M. to 12:00 P.M. "Mecklenburg County Stormwater" Speaker: Rusty Rozelle, Mecklenburg County Stormwater





1:10 P.M. to 1:55 P.M. "The information planners need to conserve nature in their jurisdictions" Speaker: Sara A. Gagne, PhD, Associate Professor of Landscape Ecology, UNC Charlotte





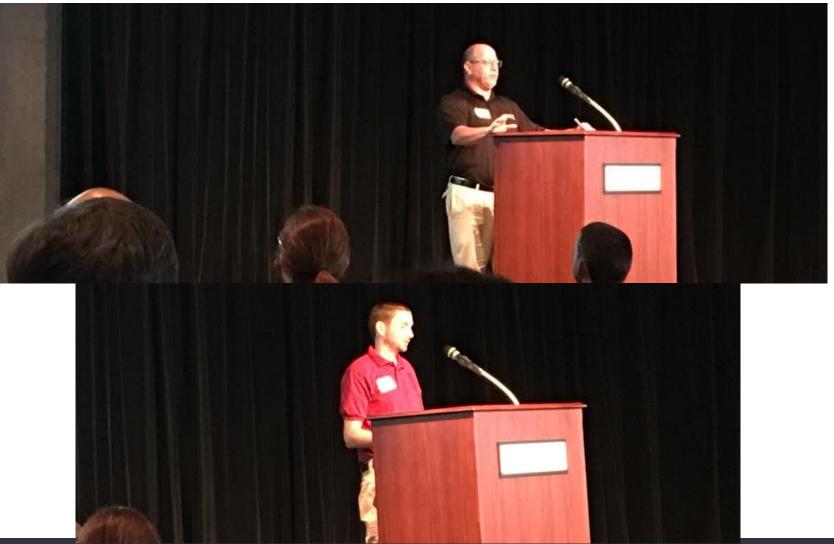
2:10 P.M. to 2:55 P.M. "Urban Rainscaping: Small Scale Solutions for Protecting NC Water Resources" Speaker: Mitch Woodward, Area Specialized Agent, Watersheds and Water Quality





2:55 P.M. to 3:30 P.M. "Agricultural Best Management Practices for Water Quality Protection" | Speaker: Randy Willis, District Administrator, Catawba County Soil and Water; Blake Henley, Soil Conservation Technician,

Catawba County Soil and Water





- 2019: Water Quality Conference on Thursday, July 25 and Air Quality Conference on Friday, July 26
- 2020: Water Quality Conference on Thursday, July 30 and Air Quality Conference on Friday, July 31



Stream Clean-up



