

North Carolina Watershed Brochure Series · January 1, 2021 · Piedmont Triad Regional Council · www.ptrc.org/stormwatersmart

WHAT TO KNOW

Reedy Fork is a vital water source that flows through numerous communities in the Piedmont Triad region of North Carolina. Stewards of the watershed need to know:

- How Reedy Fork connects to other waterways downstream
- Which pollutants affect its water quality
- What a healthy riparian buffer looks like, and how activities in these buffer zones are regulated and permitted

QUICK INFO

Areα (sq miles)255
Miles of Streams339
of Impaired Streams17
Dominant Land Use:Dvlpd Land
Counties: Alamance, Forsyth,
Guilford,

Data pulled from the Watershed Stewardship Network, NC DEQ "Know Your HUC", and modelmywatershed.org

WHERE IS IT?



The Reedy Fork watershed is located in the heart of the Piedmont Triad and is a part of the Cape Fear River Basin. Reedy Fork begins in Kernersville, where it flows east towards Greensboro, continuing on into Alamance county. Along the way, it flows through Lake Townsend



and Lake Brandt. It is also joined by tributaries such as Buffalo Creek. Richland Creek, and Moores Creek, before it eventually runs into the Haw River. The Haw River later transitions to the Cape Fear River, before ending at the Atlantic Ocean. Also, the Cape Fear river is one of only 4 river basins to be contained entirely within the borders of the state. Reedy Fork occupies land in counties and numerous municipalities in the Triad. The map to the left illustrates the watershed area and the communities it impacts.

REEDY FORK WATER QUALITY

The water quality of this watershed can be listed overall as fair. Multiple waterbodies carry impairment listings from the North Carolina Department of Environmental Quality and they are as follows: Reedy Fork, Brush Creek, Horsepen Creek, Lake Brandt, and North and South Buffalo Creeks, Also, both North and South Buffalo Creeks require Total Maximum Daily Loads (TMDLs). TMDL's are management plans created to limit the discharge of specific pollutants into waterbodies that already have excessive pollution. The TMDLs are for cyanide and fecal coliform (North Buffalo Creek) and cyanide, fluoride and selenium (South Buffalo Creek).

RIPARIAN BUFFER BENEFITS

A riparian stream buffer is an area running parallel alongside both sides of a protected stream, river, pond, or lake. Stream buffers not only filter pollutants, prevent erosion, and reduce flooding; they also provide habitats for a variety of animal species, many of whom use stream buffers like highways to travel within their range in search of tood, water and shelter. Healthy vegetation provides a safe, shaded place to rest and reproduce.





SOIL AND SEDIMENT
FROM DISTURBED
LAND ARE THE #1
SOURCES OF
POLLUTION IN NC
WATERWAYS.

Storm systems carry the runoff from rain events to the nearest creek, untreated and unfiltered. Pollution that enters a storm drain ends up harming aquatic life and degrading water quality. If you see or smell noxious discharge at an outfall, or if you witness someone dumping anything into a storm drain, you can help stop the damage by calling 3-1-1 or your local stormwater department (see last page).



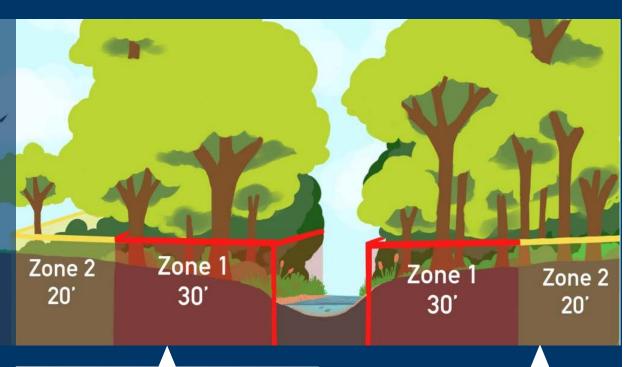


NCDEQ STREAM BUFFER ZONES

Regulations are set by the North Carolina Department of Environmental Quality (NCDEQ). Permitting rules vary slightly depending on the watershed, but the general rule has the riparian buffer divided into Zone 1 and Zone 2; together totaling 50' of protective vegetation.



PROTECTING
THE 50'
BUFFER ZONE
PRESERVES
WATER
QUALITY AND
ALLOWS OUR
NATURAL
LANDSCAPE
AND ITS
WILDLIFE TO
THRIVE!



ZONE 1

Zone 1 extends from the top of the bank landward for 30 feet on all sides of the stream. Zone 1 has the stronger protections of the two zones, and should have a variety of native grasses, shrubs, and trees.

NO clearing, grading or development should take place here. No mowing, tree removal, or pesticide and fertilizer use.

NO direct deposit of concentrated water runoff flow, such as downspouts from rooftops and paved areas.

ZONE 2 · · · ·

Zone 2 continues landward another 20 feet, creating a 50-foot buffer in total. Grading & revegetation are allowed IF:



- IF no impervious surfaces are added (i.e. paved walkways or slabs)
- IF no trees are removed.

Some stormwater runoff is allowed to enter Zone 2, but the flow must be diffused and traveling at slower speeds. A rock pile or rain garden can help!

?) HOW DO I KNOW IF A WATERWAY IS REGULATED?

What may look like a dry ditch during part of the year may be a protected stream that requires a permit for any kind of development. Before doing anything within the 50' buffer that affects stream health (clearing trees and shrubs, adding walkways and structures, applying fertilizer and pesticides, redirecting water flow, etc.) check with your local government for assistance in determining if you are dealing with a protected stream, even if water rarely flows. See the next page for local contact information.

HELPFUL VEGETATION

There are a variety of important plants that thrive in riparian buffer habitats, with deep root systems to help filter pollutants and stabilize stream banks, preventing the loss of sediment. Here are just a few to look for and prioritize in a riparian buffer near you:







Swamp Milkweed (a favorite of Monarch butterflies)







Virginia Sweetspire

LOCAL GOVERNMENT

PARTNERS

City of Greensboro

T: 336)373-2489

300 West Washington Street, Greensboro,

NC 27401

Town of Kernersville

Stormwater Division

T: (336) 996-7166 509 Michael Street,

Kernersville, NC 27284

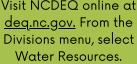
Learn to Assess Stream Health with Stormwater SMART

The local governments listed at left support healthy watersheds through membership in Stormwater SMART. SMART provides free hands-on programming to schools, libraries, civic groups, businesses, and other organizations. Citizen science and stewardship programs like NC Stream Watch (from the NC Department of Environmental Quality) are a fun way to gain scientific skills, enjoy local parks, and improve the health of our waterways! With NC Stream Watch, people of all ages and abilities can learn how to:



Visit NCDEQ online at dea.nc.gov. From the Divisions menu, select Water Resources.

- Measure nutrient and pH levels
- Observe aquatic species
- Spot signs of erosion
- Identify soil and plant types
- Track trash/litter density
- Locate storm drains, downspouts, and other conveyances







Contact Stormwater SMART for more information about free stormwater programs in the Triad: Email stormwatersmart@ptrc.org · Phone (336) 904-0300 Piedmont Triad Regional Council 1398 Carrollton Crossing Drive Kernersville, NC 27284