

# Final Public Meeting for South Fork Holston River

Smyth and Washington  
Counties

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DEQ-SWRO

## TMDL Development



# Overview of TMDL Process

## Department of Environmental Quality

1. Conducts water quality sampling
2. Assesses the data by comparing it to water quality standards
3. Problem (**Impaired**) waters are listed in an EPA report called the 303(d) Total Maximum Daily Load (**TMDL**) List

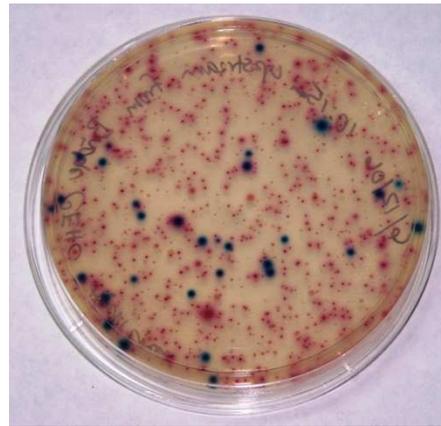
TMDLs are required by State and Federal Law

# TMDLs are Required by Law

- Federal 1972 Clean Water Act requires:
  - Water Quality Monitoring
  - Periodic Assessment and Impaired Waters Listing
  - Develop TMDLs for Impaired Waters
- Virginia's 1997 Water Quality Monitoring Information and Restoration Act (WQMIRA) requires
  - TMDLs for Impaired Waters
  - An Implementation Plan

# What are Water Quality Standards?

- **Numeric or Narrative Limits** designed to protect designated uses
  - Recreational use: measured by the number of colony forming units of bacteria in the water
  - Aquatic life use: measured by the numbers and varieties of aquatic organisms that live in our streams



# Designated Uses

Virginia's designated uses include:

Wildlife

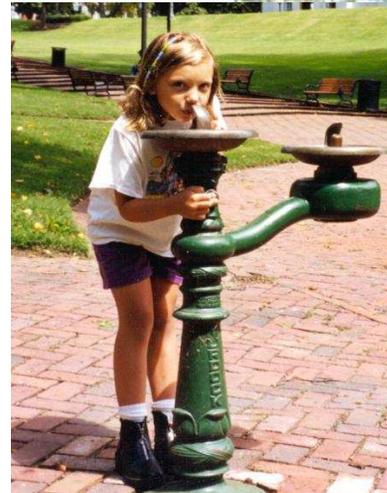
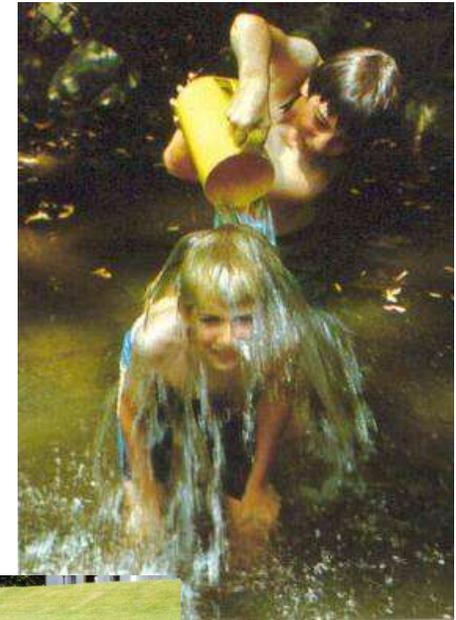
Aquatic Life

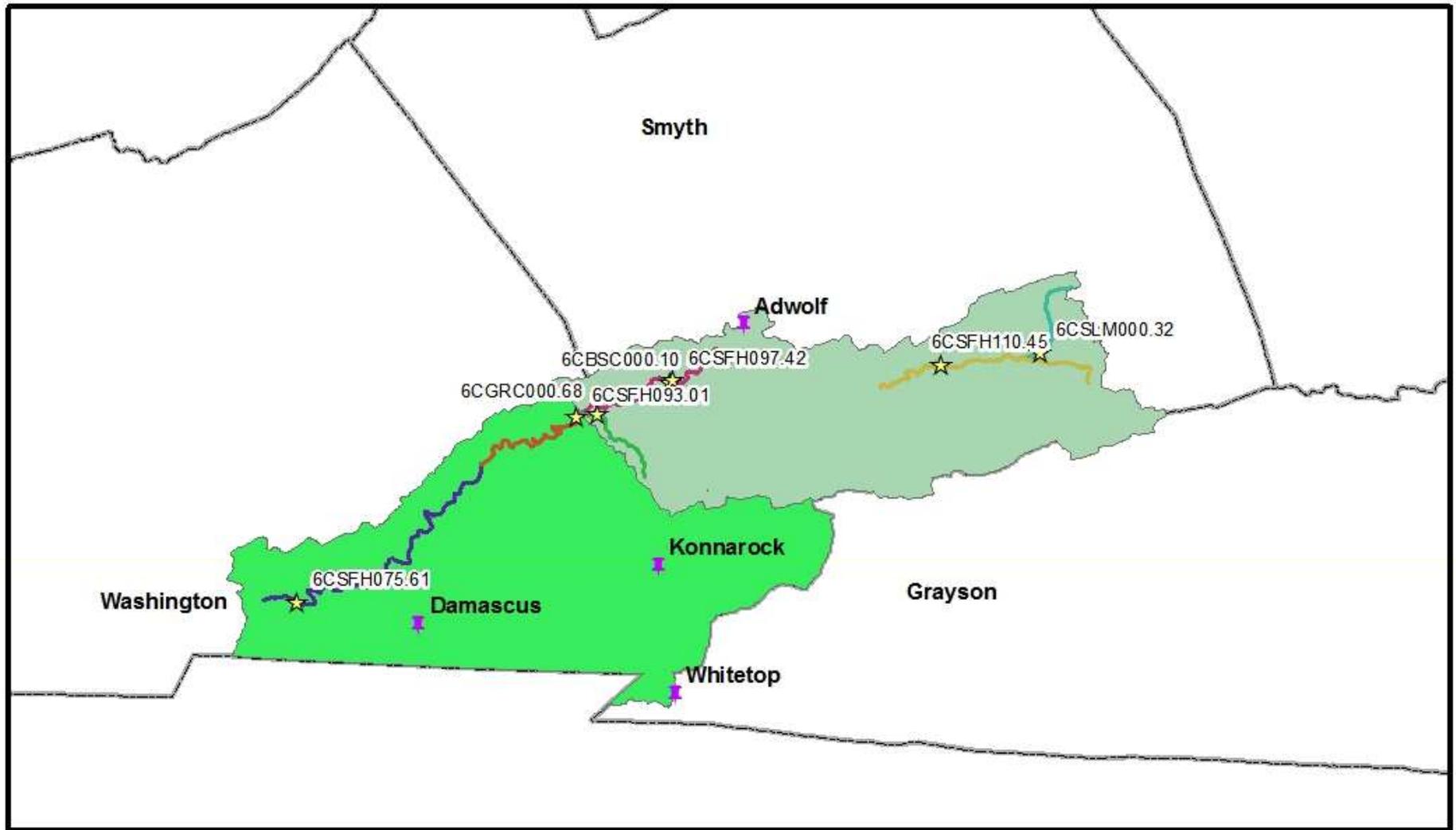
Recreation

Fish Consumption

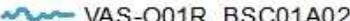
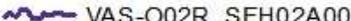
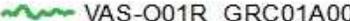
Shellfish

Public Water Supply





### South Fork Holston River TMDL Project Area

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li> Communities</li> <li> Monitoring Stations</li> </ul> | <ul style="list-style-type: none"> <li> VAS-001R_SFH01A00</li> <li> VAS-001R_SFH03A00</li> <li> VAS-001R_SLM01A02</li> <li> VAS-002R_SFH01B02</li> <li> VAS-001R_BSC01A02</li> <li> VAS-002R_SFH02A00</li> <li> VAS-001R_GRC01A00</li> </ul> | <p><b>South Fork Holston TMDL Area</b></p> <p><b>DSWCHU</b></p> <ul style="list-style-type: none"> <li> O01</li> <li> O02</li> </ul> |
|--|--|--|

Stream Name Impairment ID	Impairment	Initial Listing Year	2014 Draft River Miles
Bishop Branch VAS-O01R_BSC01A02	E. Coli	2010	0.48
Grosses Creek VAS-O01R_GRC01A00	E. Coli	2010	4.00
Slemp Creek VAS-O02R_SLM01A02	E. coli	2010	3.85
South Fork Holston River VAS-O01R_SFH01A00	E. Coli	2002	8.09
South Fork Holston River VAS-O01_SFH03A00	E. Coli	2010	9.58
South Fork Holston River VAS-O02R_SFH01A02	E. Coli	2006	6.14
South Fork Holston River VAS-O02R_SFH02A00	E. Coli	2004	12.98

# What is a TMDL or Total Maximum Daily Load?

- Amount of a pollutant that a waterbody can receive and still meet water quality standards
- It is pollutant Specific
  - Bacteria
- A special study that:
  - Identifies all significant pollutant sources
  - Calculates the amount of pollution from each source
  - Calculates pollution reductions, by source, needed to attain water quality standards

# What Are The Steps In The TMDL Process?

1. Public notice for TMDL development
2. TMDL Study with Public Meeting - Monitoring and Modeling the Watershed
3. Public notice for Draft TMDL
  1. Public Meeting with 30-day comment period
4. Submit to EPA for approval
5. State Water Control Board adoption of TMDL
6. TMDL Implementation Plan
7. Implementation of Corrective Actions Prescribed by Implementation Plan
8. Further Monitoring to Measure Success

# For More Information

TMDLs in Virginia

[http://www.deq.virginia.gov/Programs/Water/  
WaterQualityInformationTMDLs.aspx](http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs.aspx)

EPA Region 3 TMDL Info

<http://www.epa.gov/reg3wapd/tmdl/>

# Thank You

The 30 day public comment period for this meeting closes on September 28, 2015.

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