Final Public Meeting for Walker Creek

Bland County

Martha Chapman
DEQ-SWRO

Walker Creek
Town Creek
East Wilderness Creek
Kimberling Creek
Nobusiness Creek

TMDL Development

0 1.5 3 6 9 12 Miles

DEQ
Virginia Department of Environmental Quality

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

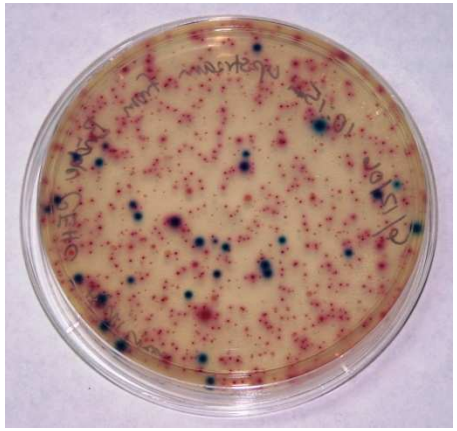
TMDLs are required by State and Federal Law

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?

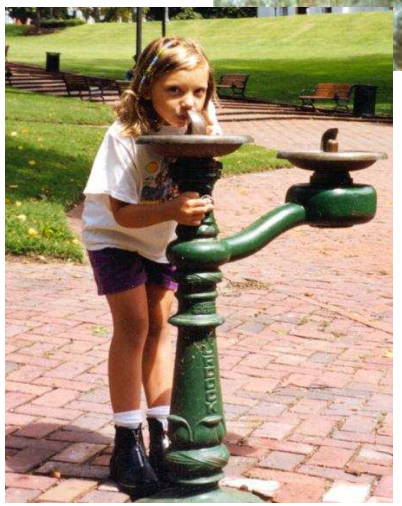
- **Numeric** or **Narrative** Limits designed to protect designated uses
  - Recreational use: measured by the number of colony forming units of bacteria in the water
  - Aquatic life use: measured by the numbers and varieties of aquatic organisms that live in our streams

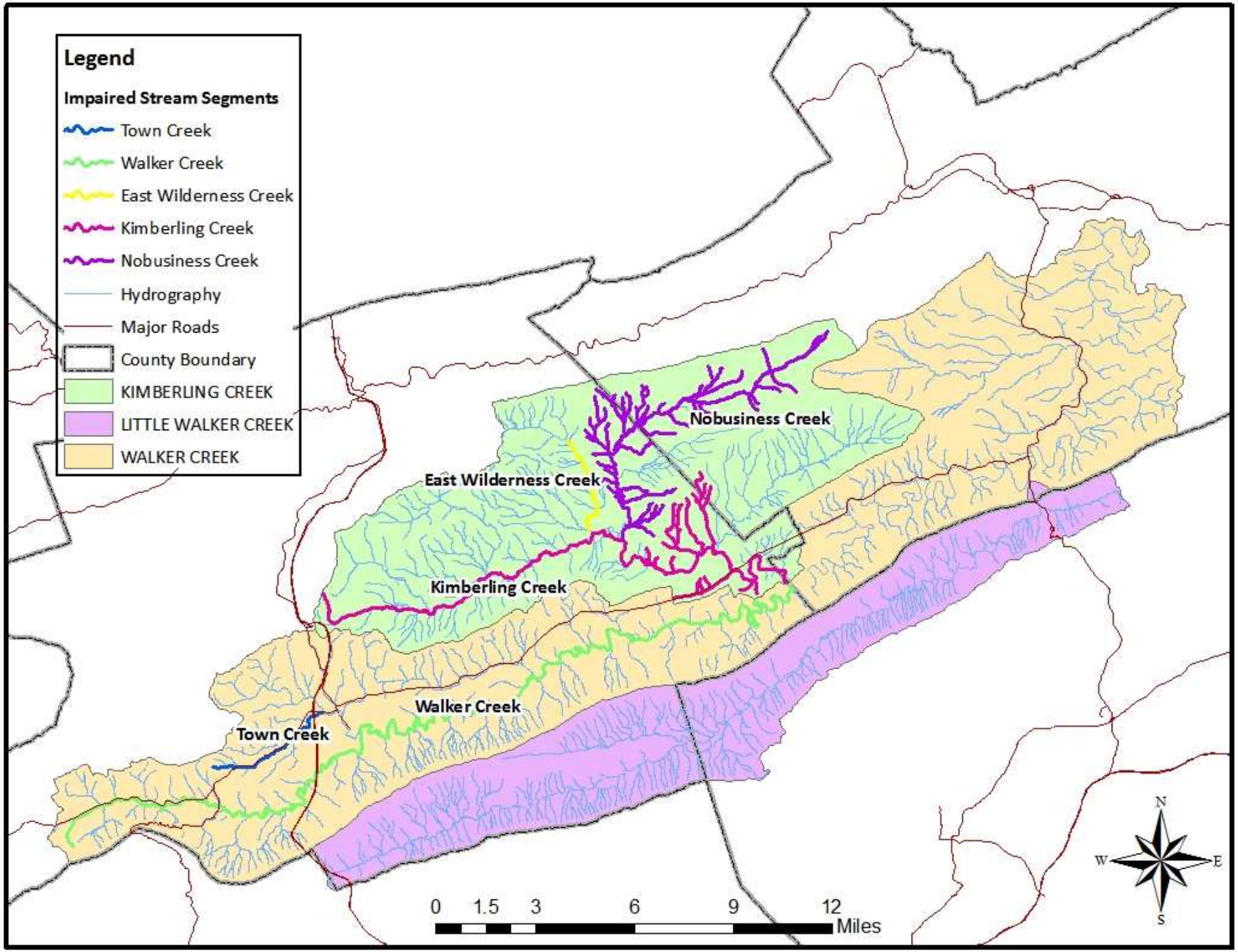


Designated Uses

Virginia's designated uses include:

Wildlife
Aquatic Life
Recreation
Fish Consumption
Shellfish
Public Water Supply




Legend
Impaired Stream Segments
Town Creek
Walker Creek
East Wilderness Creek
Kimberling Creek
Nobusiness Creek
Hydrography
Major Roads
County Boundary
KIMBERLING CREEK
LITTLE WALKER CREEK
WALKER CREEK
Nobusiness Creek
East Wilderness Creek
Kimberling Creek
Walker Creek
Town Creek
0 1.5 3 6 9 12
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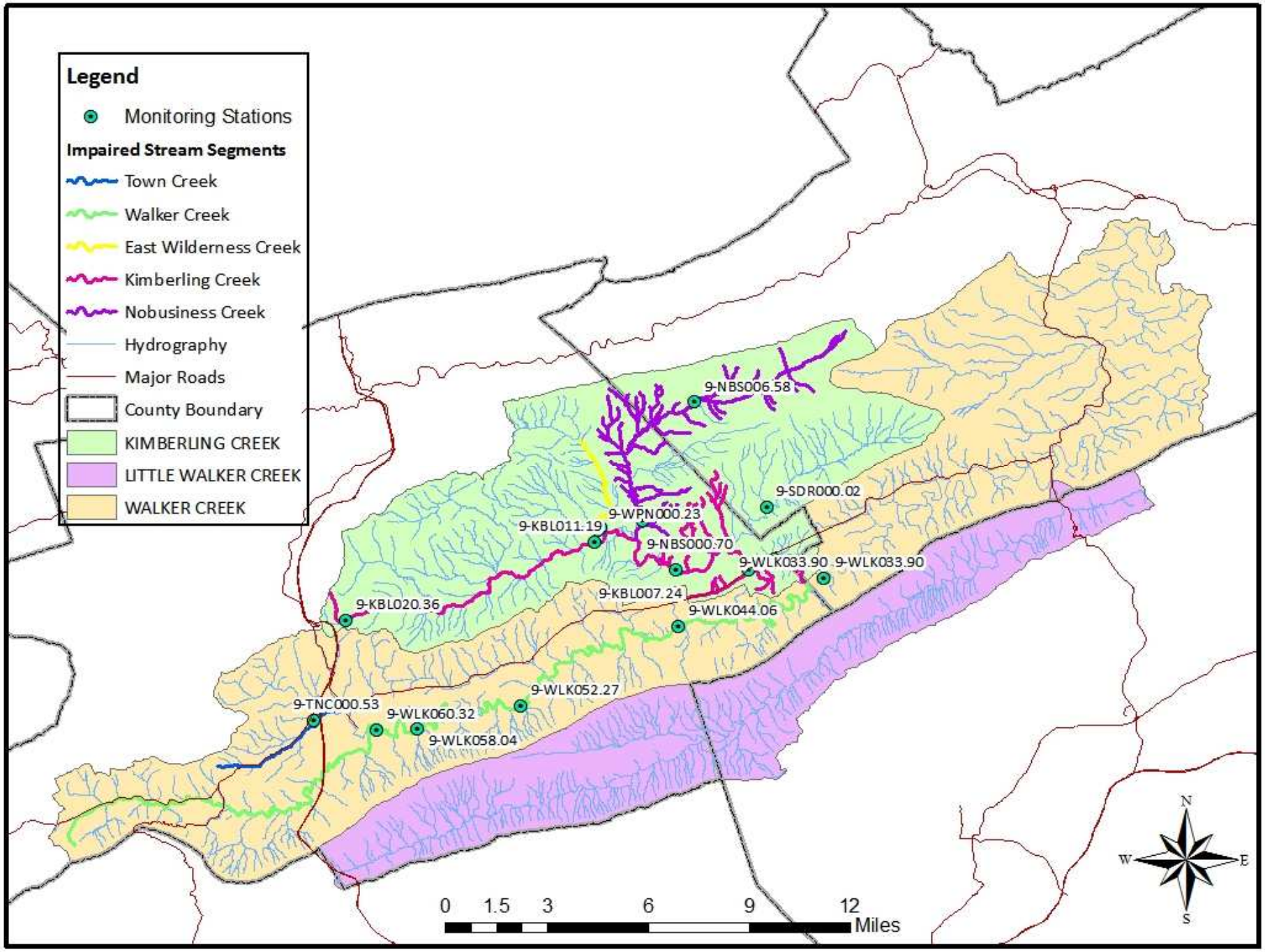
Legend
Monitoring Stations
Impaired Stream Segments
Town Creek
Walker Creek
East Wilderness Creek
Kimberling Creek
Nobusiness Creek
Hydrography
Major Roads
County Boundary
KIMBERLING CREEK
LITTLE WALKER CREEK
WALKER CREEK
9-NBS006.58
9-SDR000.02
9-WPN000.23
9-KBL011.19
9-NBS000.70
9-WLK033.90
9-WLK033.90
9-KBL007.24
9-KBL020.36
9-WLK044.06
9-WLK052.27
9-TNC000.53
9-WLK060.32
9-WLK058.04
0 1.5 3 6 9 12
Miles
N
W
E
S

Stream Name Impairment ID	Impairment	Initial Listing Year	2012 River Miles
Town Creek VAS-N25R_TNC01A10	E. Coli	2010	4.40
Walker Creek VAS-N25R_WLK04A00	E. Coli	2006	14.48
Walker Creek VAS-N25R_WLK04A12	E. coli	2006	8.46
Walker Creek VAS-N25R_WLK04B12	E. Coli	2006	10.59
East Wilderness Creek VAS-N26R_EWL01A10	E. Coli	2010	3.35
Kimberling Creek VAS-N26R_KBL02A00	E. Coli	2014	4.88
Nobusiness Creek VAS-N26R_NBS01B04	E. Coli	2010	6.72

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

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 August 28, 2015.

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