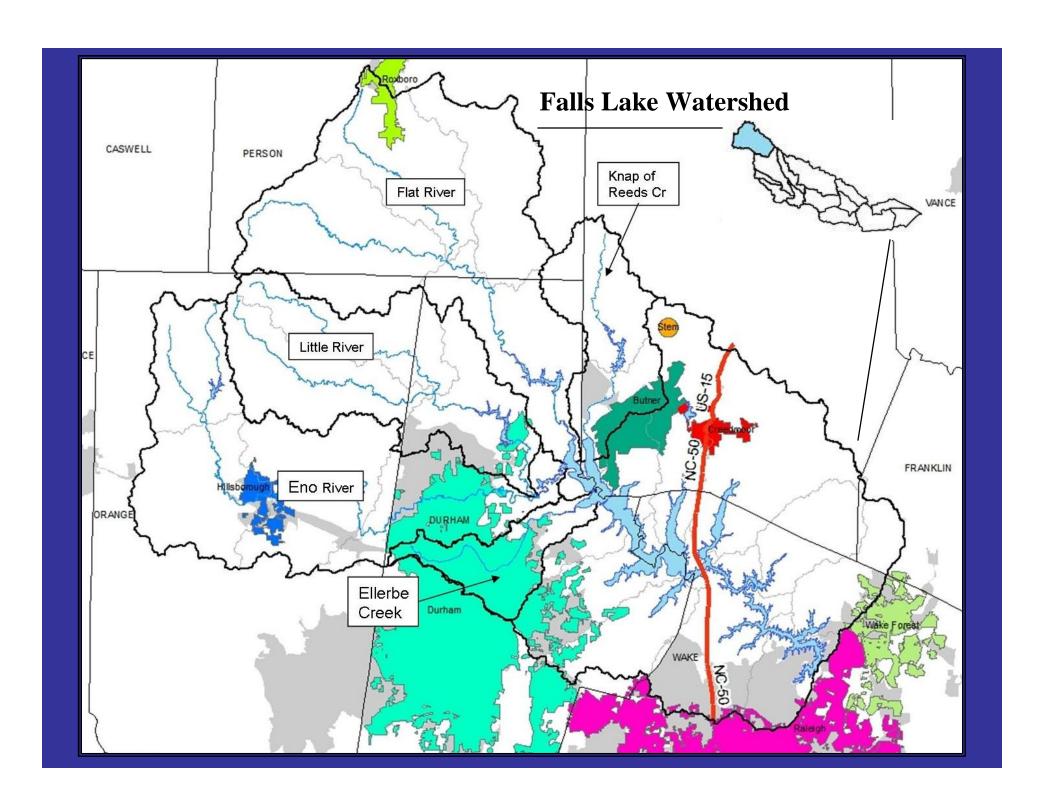
Falls Lake Update

John Huisman, NC DWQ December 17, 2009

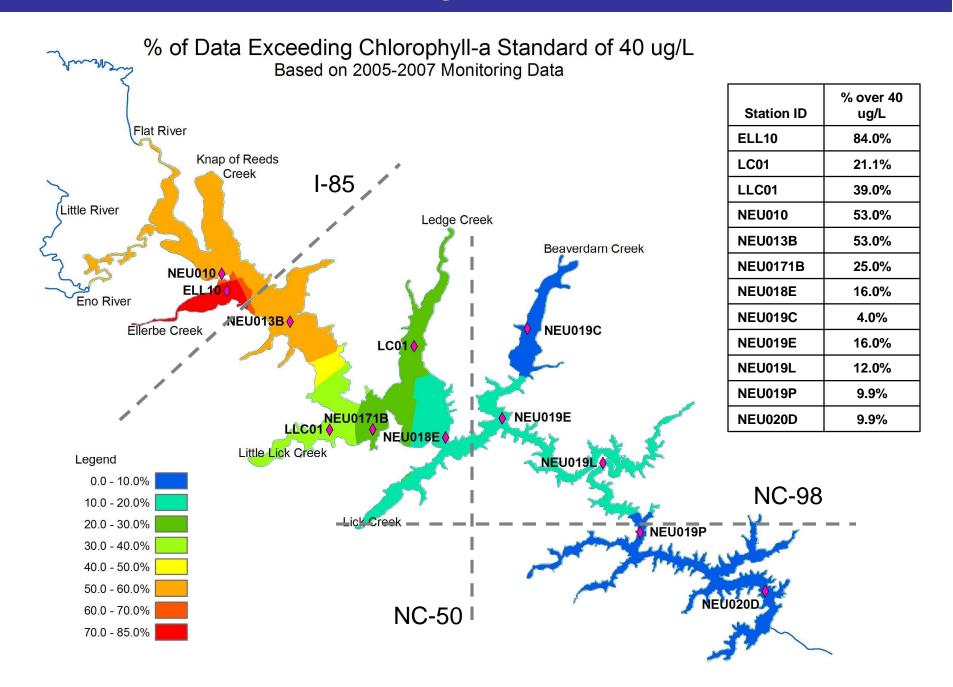




Recent Falls Lake History

- 2004 focus on lake's condition
- SL 2005-190 (SB 981), SL 2006-259
 - EMC shall adopt nutrient rules
 - Based on calibrated model
- Lake Sampling
 - Special Study: Mar 2005 Sep 2007
- Technical Advisory Committee
 - Input on data collection, model 2005-2009
- Water Quality Impairment identified
 - 2008 Draft EPA 303d List
 - Chl-a & Turbidity (Portion above I-85)

Percent of Data Exceeding Chl-a Standard in Falls Lake



2009 Falls Lake Legislation SL 2009-486 (s1020)

- EMC shall adopt nutrient rules:
 - January 15, 2011 adoption deadline
 - Concurrently adopt as temporaries
- Credit early reductions
- Buffer, nutrient mitigation same watershed
- Tighter erosion/sediment control standards
- DENR report on septic by March 2010

Strategy Development Process

Two Models Developed

- 15 TAC Meetings development / review of models
- Watershed model to stakeholders May '09
- Lake model to stakeholders June '09

Rulemaking Process

- 9 Stakeholder Meetings Aug '08 Jan '10
- 12 Subcommittee Meetings Sept Dec '09
- Fiscal Note to OSBM Jan. 31, '10 (target)
- Draft rules to WQC and EMC Mar '10
- Final Rules to EMC no later than January 15, 2011

Stakeholder Subcommittee Meetings

New Development Subcommittee

Meeting #1: September 17, 2009

Meeting #2: October 12, 2009

Meeting #3: December 7, 2009

Point Source and Package Plants Subcommittee

Meeting #1: September 21, 2009

Meeting #2: October 19, 2009

Existing Development and Onsite Wastewater Subcommittee

Meeting #1: October 2, 2009

Meeting #2: October 22, 2009

Local Jurisdictional Approach Subcommittee

Meeting #1: October 26th, 2009

Meeting #2: December 2, 2009

Agriculture Subcommittee

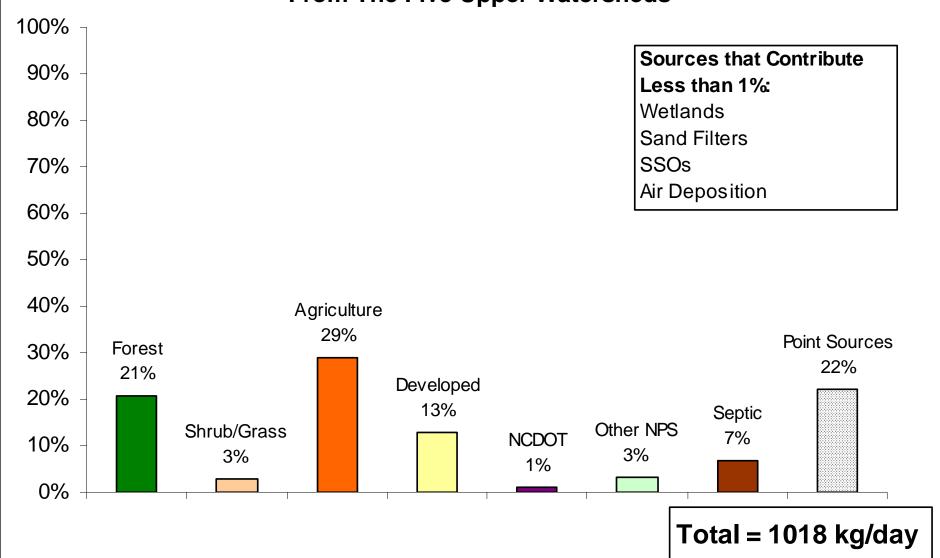
Meeting #1: October 6, 2009

Meeting #2: November 4, 2009

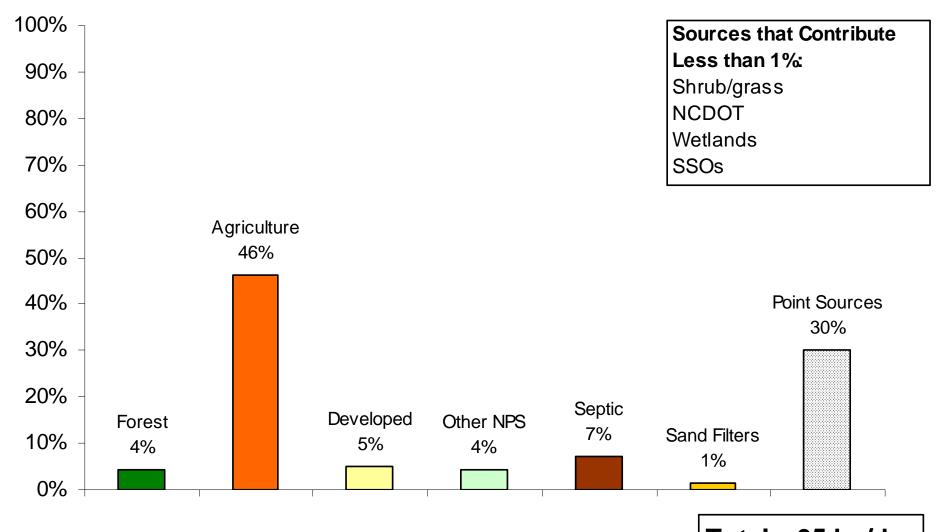
Meeting #3: December 3, 2009











Total = 95 kg/day

Overall Reduction Goals

Nutrient Reduction Goal

40 % TN and 77% TP

Note:

The nutrient reduction goal has been adjusted to represent the redistribution of load reductions from background sources and accounts for predicted reductions from atmospheric sources

NMS Approach

- Adaptive / staged approach
 - Recognizes large reduction needs
 - Ongoing water quality monitoring in lake
 - Calls for reductions from point and nonpoint sources
- Stage 1
 - Start with nutrient reduction controls watershed-wide
 - Achieve water quality standards in the lower lake
- Stage 2
 - Additional reductions in upper watershed over time
 - Achieve the overall reductions needs

Review of Next Steps

- Dec. 23rd ~ Stakeholder comments on 1st draft rule due back to DWQ
- Jan 14th ~ Revised draft rules out to stakeholders
- Jan 21st ~ Final Full Stakeholder Meeting
- Jan 29th ~ Comments on 2nd draft of rules due back to DWQ
- January 31st ~ Fiscal Note to OSBM (target date)
- March 2010 ~ WQC /EMC
- Draft rules out for public comment
- January 15, 2011 ~ EMC Adoption of Final Rules

Questions

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TJCOG Falls Lake Stakeholder Website:

http://www.fallslakestakeholder.org



Slides in Reserve

Falls Lake Land Cover

(2001 Land Cover Data)

