# Little Lick Creek Watershed Plan

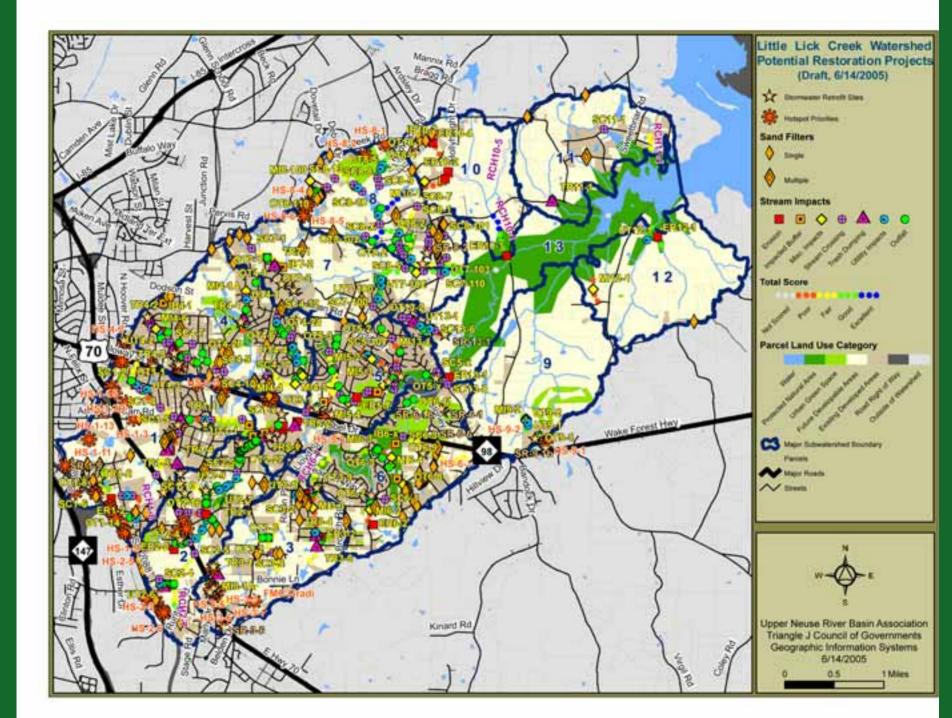
Technical Team Meeting 6 Wednesday, October 5, 2005

# Agenda

- 2:00 Welcome & announcements
- 2:15 Prioritizing Restoration Projects\*
- 3:00 Break
- 3:30 Subwatershed Restoration Needs\*
- 4:00 Adjourn

<sup>\*</sup> Decision Item

# Prioritizing Restoration Projects



#### Restoration

- 1. Stream repair
- 2. Buffer Restoration
- 3. Stormwater Retrofits
- 4. Homeowner education
- 5. Inspection and enforcement
- 6. Maintenance
- 7. Trash clean-up
- 8. Hotspots

Do not rank project types 4-8. Give the list to Durham Stormwater Services and to Durham County. Ask them which projects/sites are in their jurisdiction. They would need the Tables from the Tech Memos and the GIS layer with locations.

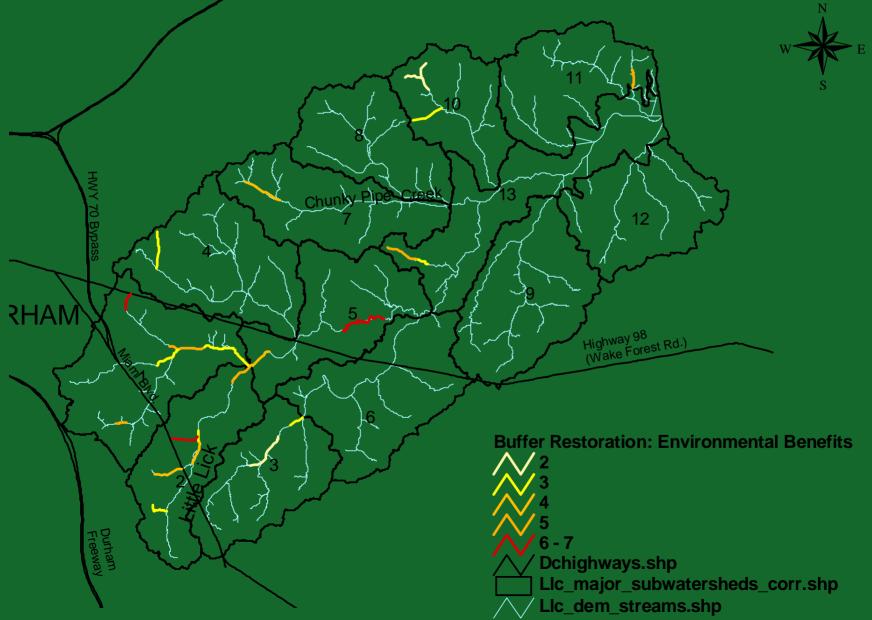
#### Restoration Prioritization

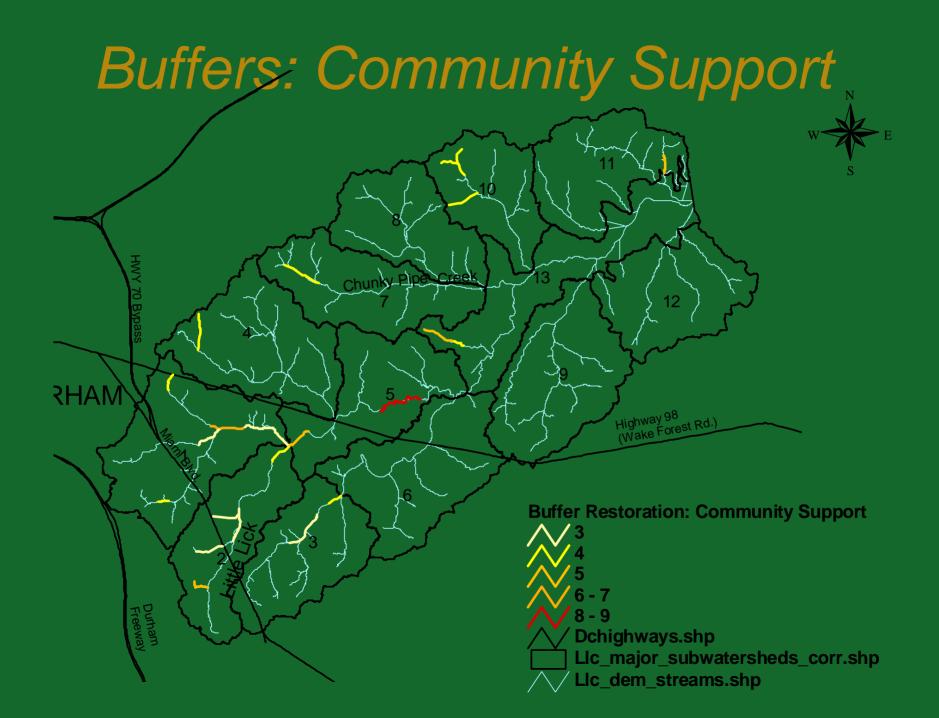
In August: LLC Tech Team decided on general approach and relative weightings

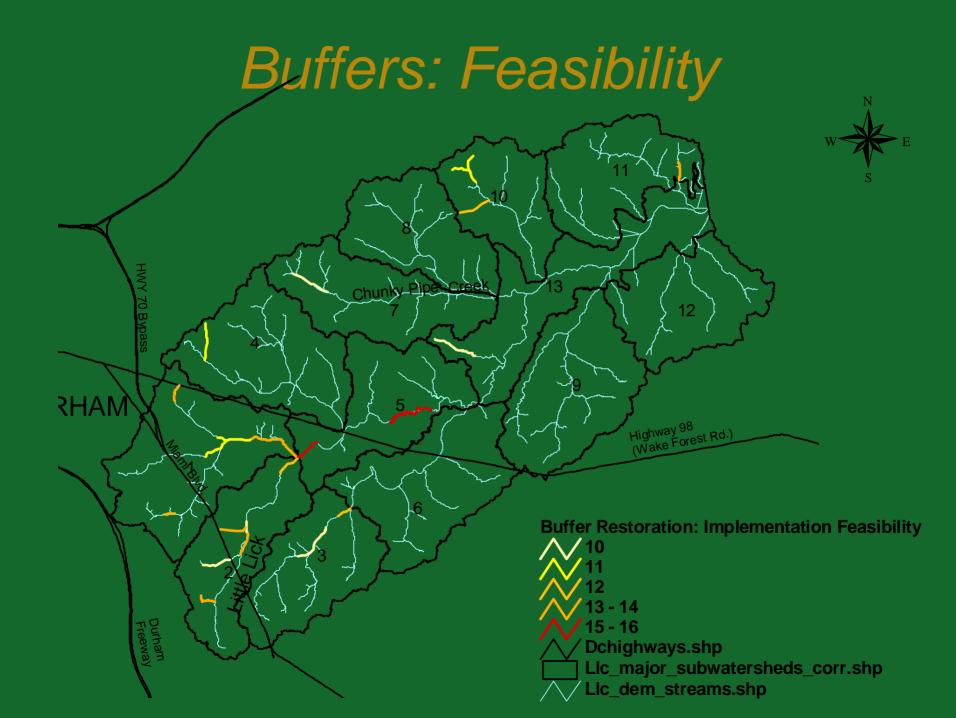
- Stream restoration
- Buffer restoration
- Stormwater retrofits

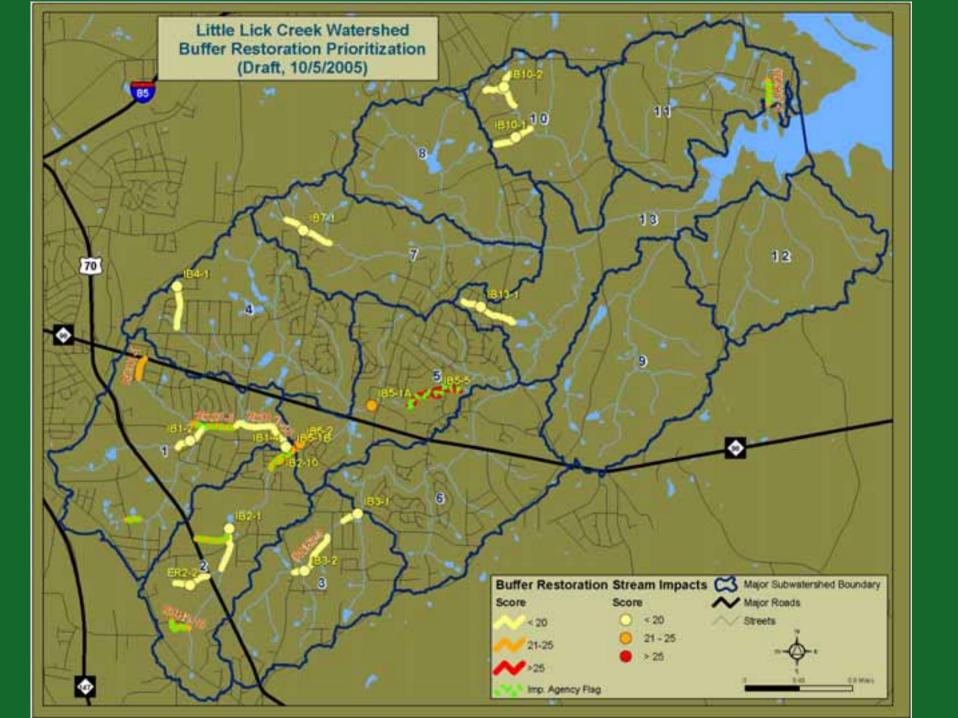
# Buffer Restoration Priorities

# Buffers: Environmental Benefits



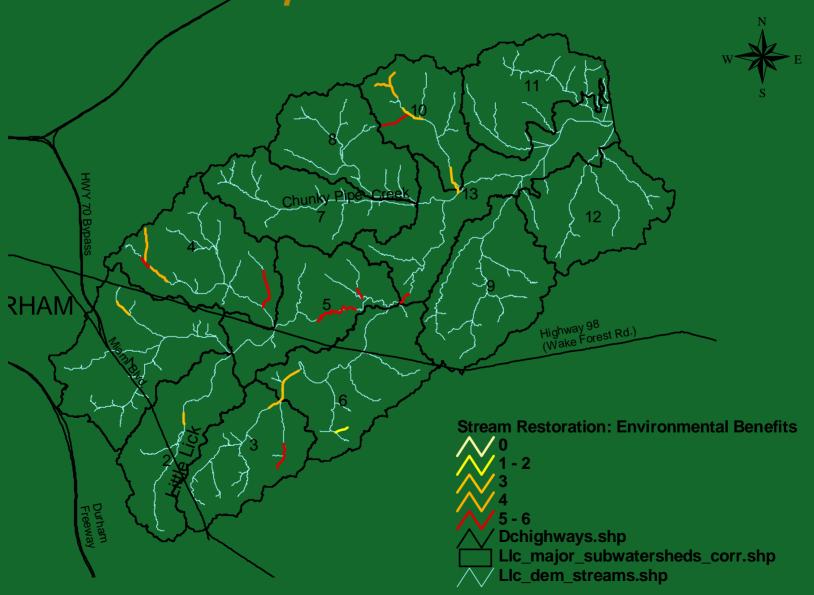




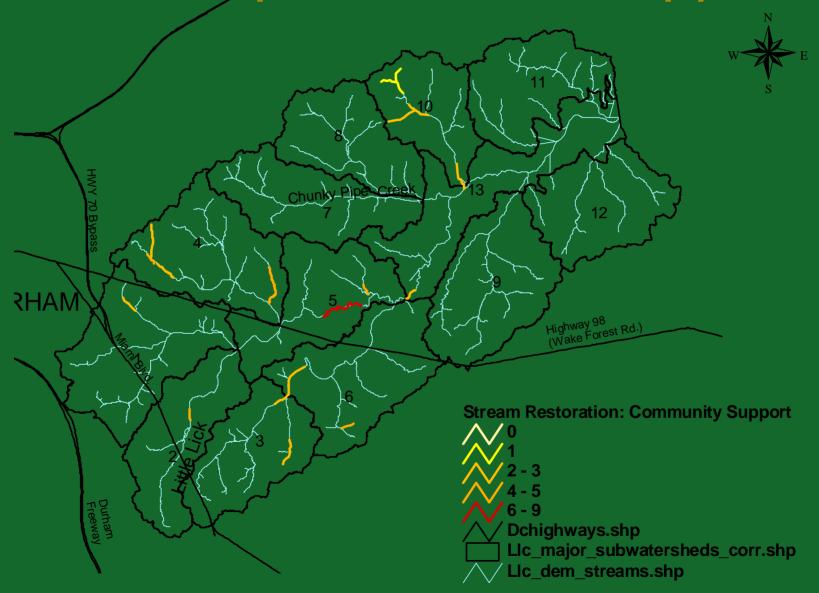


# Stream Repair Priorities

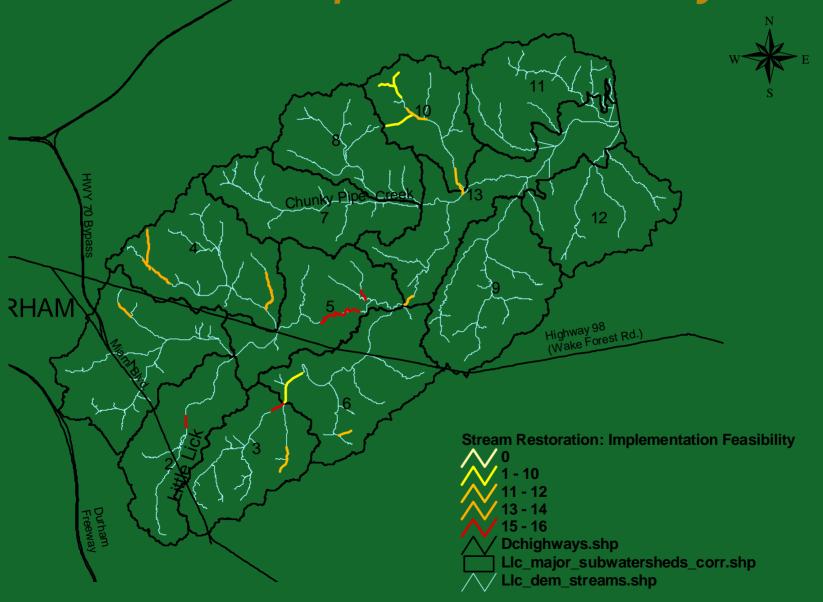
# Stream Repair: Env. Benefits

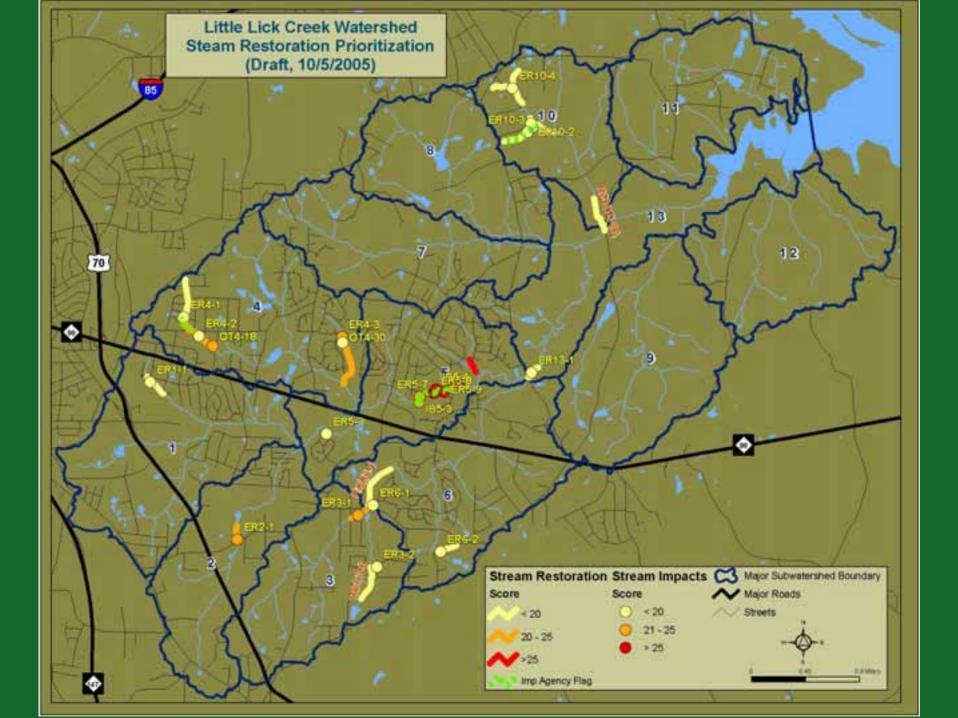


Stream Repair: Comm. Support



# Stream Repair: Feasibility





## Buffer Restoration Priorities

Example: Reach 10B

#### Environmental Benefits



- •Length
- •Reconnection
- •Addresses significant impact
- •Falls Lake



## Community Benefits



- Aesthetics
- •Long-term public involvement
- •Educates (is visible)
- •Involves citizens in implementation

## Community Benefits



- •Cost per linear foot
- •Access
- Ownership
- •Maintenance burden
- Long-term viability
- •Implementing Agency Criteria

#### Reach 10B Summary

Final buffer score: 31 points (highest priority)

Flag for meeting EEP criteria

Multiple projects: buffer restoration, stream restoration, stormwater retrofits

#### Reach 10B Scoring Runs

Reach Number	Project Number	Prioritization Run #	Habitat & WQ: length	Habitat & WQ: reconnects	Habitat & WQ: addresses significant impact	Falls Lake	Environmental Benefits Score	Aesthetics	Steward-ship: long-term pub. inv.	Stewardship: educates	Steward-ship: involves citizens in implementation	Community Support Score	Cost per foot (or area)	Access	Ownership	Maintenance Burden	Long-term viability	Imp. Agency	Feasibility Score	Total Score
RCH5 -10B	IB5 -5	Run 1	1	2	2	1	6	4	2	2	1	9	4	4	3	3	2	Flag	16	31
RCH5 -10B	IB5 -5	Run 2	1	2	2	1	6	2	1	1	0	4	2	2	1	2	0	Flag	7	17

#### **Run 1:**

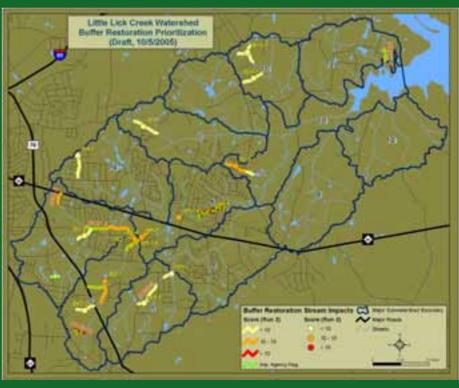
Over 50% of score is from Implementation Feasibility Criteria Environmental criteria are lowest proportion of total score

#### **Run 2:**

Over 1/3 of score is environmental and 1/3 is implementation feasibility

## Run 1 Run 2

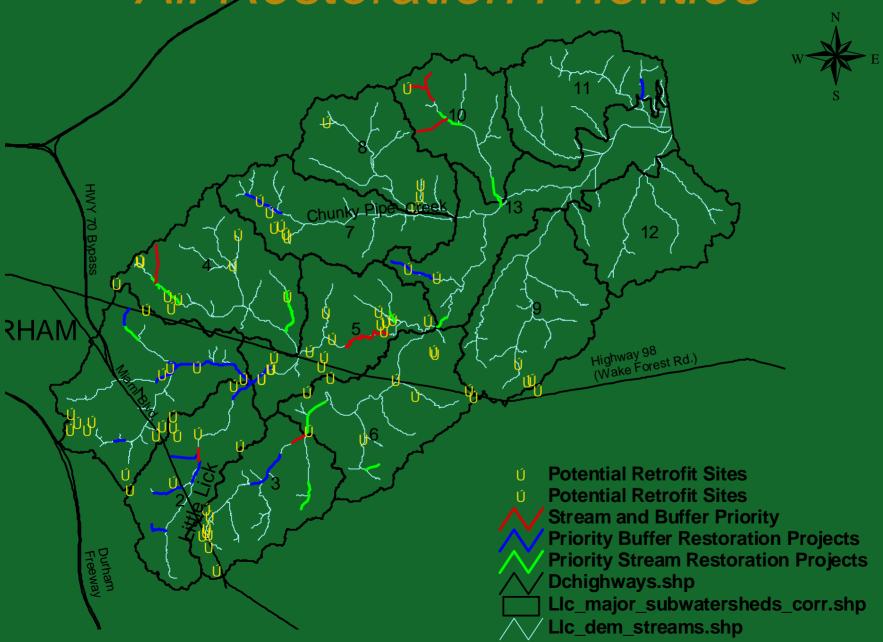


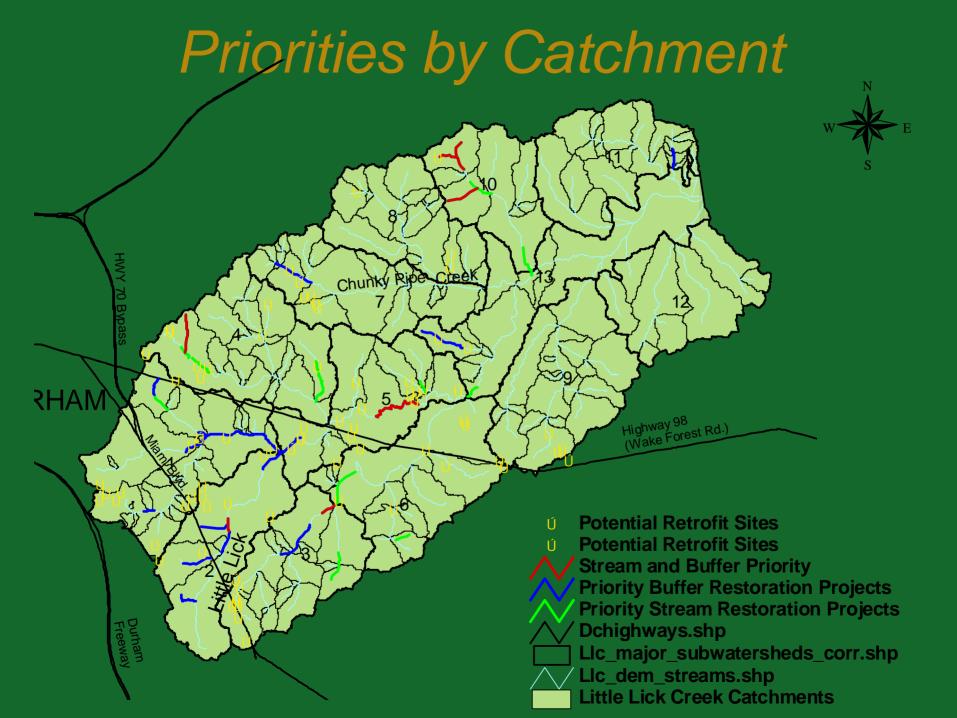


# Combining Restoration Priorities

# Stream & Buffer Priorities **RHAN** Highway 98 (Wake Forest Rd.) **Stream and Buffer Priority Priority Buffer Restoration Projects Priority Stream Restoration Projects Dchighways.shp** Llc\_major\_subwatersheds\_corr.shp Llc\_dem\_streams.shp

# All Restoration Priorities





# Next Steps

- 1. Prioritize stormwater retrofits
- 2. Finalize prioritization of projects and revise technical memo #3

# BREAK

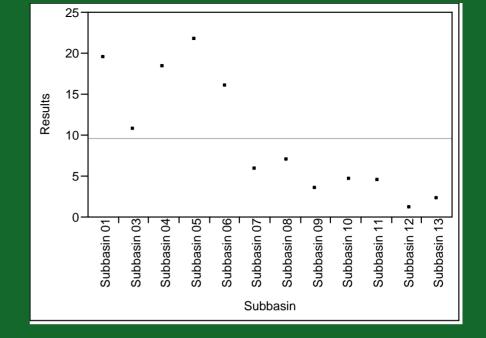
# Little Lick Creek Subwatershed Assessment

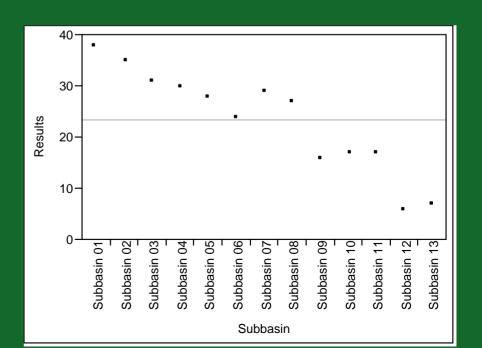
#### **Current Impervious cover (%)**

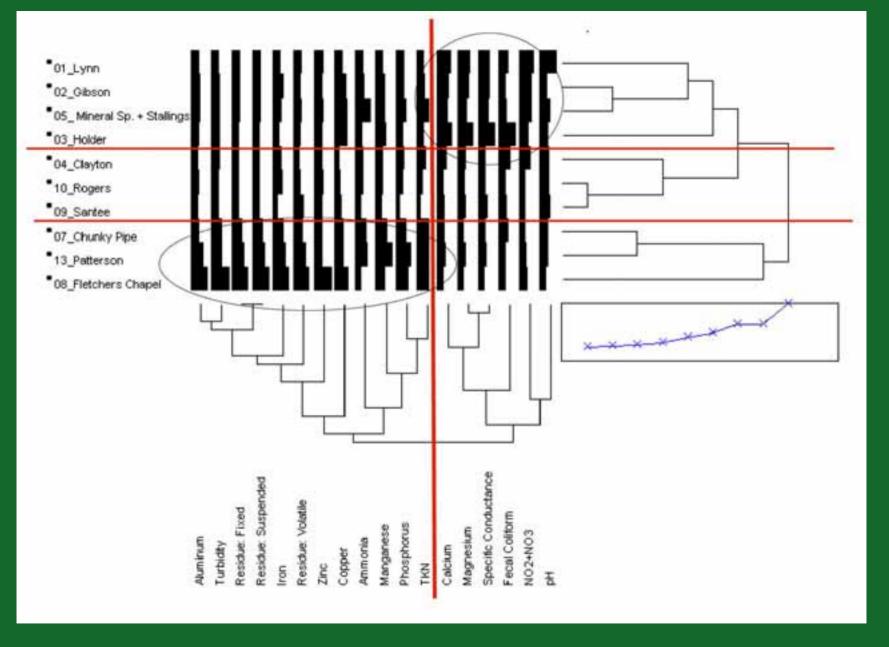
By Subwatershed



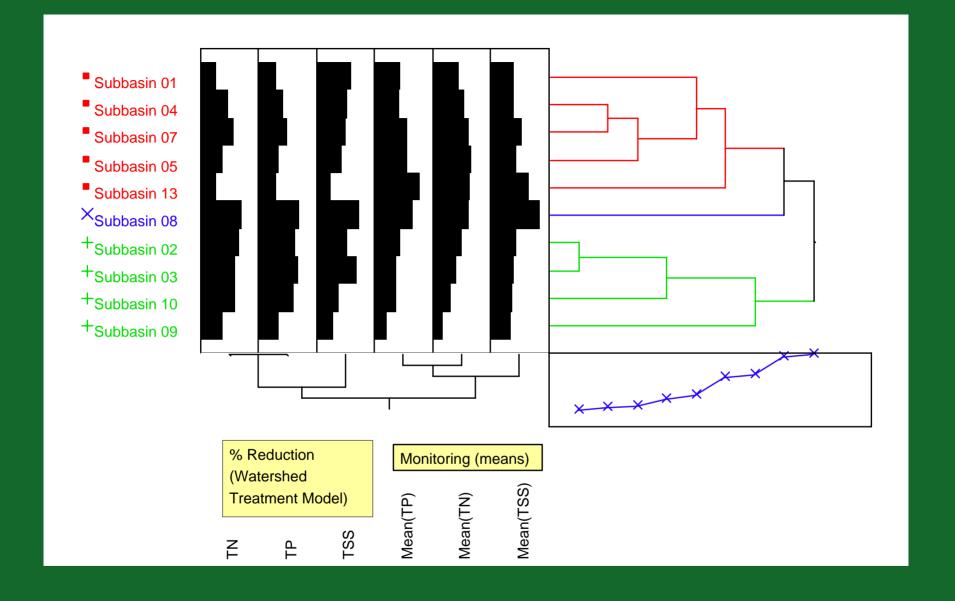
By Subwatershed







Cluster analysis showing two groups of sites (Upper right corner, lower left corner) that had high values for the parameters shown on the bottom of the graph.



A cluster analyses of the Watershed Treatment Model results for TN, TP, TSS and the mean concentrations of (Mean TP, Mean TN, and Mean TSS) from water quality monitoring.

# Next Steps

Subwatershed Assessment Committee to help determine subwatershed need for management, such as:

- Restoration
- Stormwater Retrofit
- Land Protection
- Local Ordinance Changes

# **Next Meeting**

Wednesday, November 2 at Rollingview Community Center