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## Little River Reservoir

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- Discussion on Little River Timeline and Permitting Process
  - H. Dale Crisp, P.E.
    - Director, City of Raleigh Public Utilities
  - Don Cordell, P.E.
    - Vice-President, Hazen and Sawyer



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## Little River Reservoir Permitting Update

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- Environmental Permits
  - Federal
    - 404 Permit
  - State
    - 401 Water Quality Certifications
- Technical Permits
  - Federal
    - None
  - State
    - Dam Safety
    - Public Water Supply
    - Erosion/Sediment Control



## Environmental Impact Statement Requirements

- Combined Process with Army Corps of Engineers serving as Lead Agency
- Outline for Environmental Impact Statement
  - Purpose and Need
  - Alternatives
  - Affected Environment
    - Direct Impacts
    - Indirect Impacts
  - Environmental Consequences
  - Mitigation Plan

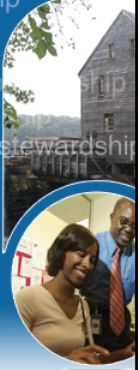
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## Current Status

- Field delineation of wetlands and streams has been completed
- Scoping Report submitted to Army Corps of Engineers
- Preparation of draft environmental impact state in progress
- Working draft of draft environmental impact state expected by end of this year
- Magnitude of Wetland Impacts and Development of a Mitigation Plan Represents a Major Challenge

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## Little River Watershed

- Wake County has 21,801 acres located in the Little River watershed.
- In 1992, the State of North Carolina classified the Little River watershed as Water Supply-II (WS-II), which is one of the most pristine classifications.
- It is intended for use as a source for drinking water.

9

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### Non Critical and Critical Area Parcels Little River Watershed

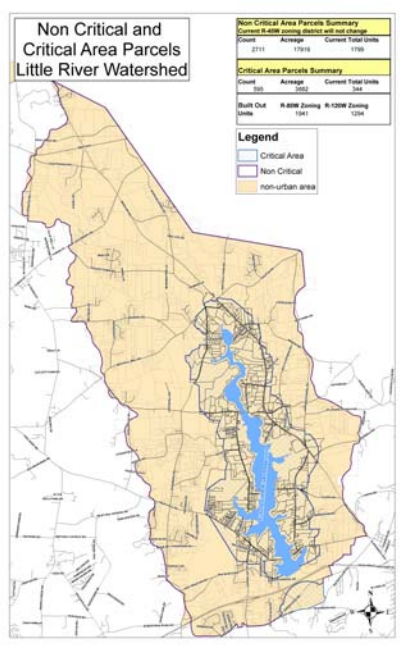


Non Critical Area Parcels Summary			
Count	Average	Current Total Units	
2713	17916	4859	

Critical Area Parcels Summary			
Count	Average	Current Total Units	
855	1052	901	

Built Out: R-8500 Zoning: R-12500 Zoning  
Units: 1541 1254

**Legend**

- Critical Area
- Non Critical
- non-urban area

10

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## Little River Reservoir

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- Blue Ribbon Committee on the Future of Wake County
  - *Recommendation: Accelerate implementation of the Little River Reservoir ahead of the currently planned date of 2025.*
- Board of Commissioners' 2006 Goals
  - *Open Space: Complete Little River Reservoir land acquisition to protect future drinking water.*
    - 1,973 acres acquired to date for the reservoir and buffers (excludes park land).
    - Execution of an Interlocal Agreement (ILA) for building the reservoir between the City of Raleigh and Wake County.
    - Working group convened to develop an additional ILA to define boundaries and land use development in the watershed.






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## Little River Workgroup

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- Goal of the Workgroup: Protection of the future water supply for eastern Wake County.
  - Workgroup charged with developing an interlocal agreement on an Urban Service Area Boundary that would be approved by the governing boards of local municipalities and the County.
- Engaged stakeholders in a process to define that Urban Service Area Boundary and to develop consensus items for inclusion in an interlocal agreement.

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## Little River Workgroup

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- Workgroup Composition:
  - Representatives from Raleigh, Rolesville, Wake Forest, Wendell, Zebulon and Wake County.
    - *Municipal Managers, County Management, City and County Planning Directors, other municipal representatives.*
  - Outside parties represented:
    - *US Fish and Wildlife Service, US Army Corps of Engineers, NC Division of Water Quality, NC Wildlife Resources Commission.*
- Four meetings held since May 2006





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## Workgroup Recommendations

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- Five of the six jurisdictions agreed to integrate the following concepts/principles into an interlocal agreement:
  - Water supply within watershed
    - Increases in water/sewer allocations required approval between the jurisdiction and the water/sewer provider.
  - Zoning within watershed
    - Limit to residential development, except allow for non-residential development in a non-urban activity center per Wake County Land Use Plan.

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**NorthEast ALUP  
Activity Centers  
Little River Watershed Area**

WAKE COUNTY  
NORTH CAROLINA  
15

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## Workgroup Recommendations

⇒ ILA Issues (continued)

- Density of development
  - **Critical area** – Recommendation of one (1) dwelling unit per **three (3)** acres.
    - Current County regulations: one (1) dwelling unit per two (2) acres.
    - Proposal exceeds State minimum recommendations of one (1) unit per two (2) acres in WS-II critical areas.
    - Other Counties with more protective requirements than the State recommended minimums in certain WS-II critical areas:
      - » **Caswell** – One (1) dwelling unit per three (3) acres in Country Line Creek watershed;
      - » **Durham** - One (1) dwelling unit per three (3) acres in all of the rural watershed area;
      - » **Orange** – One (1) dwelling unit per five (5) acres in Cane Creek and University Lake watersheds.

WAKE COUNTY  
NORTH CAROLINA  
16



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## Workgroup Recommendations

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➤ ILA Issues (continued)

- Density of development
  - **Non-Critical area** – Recommendation of one (1) dwelling unit per one (1) acre.
    - Maintains current County regulations.
    - Consistent with State minimum recommendation of one (1) dwelling unit per one (1) acre in WS-II.
    - *Other Counties with more protective requirements than the State recommended minimums in certain WS-II non-critical areas:*
      - » **Caswell** – One (1) dwelling unit per two (2) acres;
      - » **Durham** - One (1) dwelling unit per three (3) acres in all of the rural watershed area.



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## Workgroup Recommendations

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➤ ILA Issues (continued)

- Stormwater issues
  - Limit impervious surfaces in the critical and non-critical areas of watershed:
    - Recommended 6% maximum impervious surface in critical area; 12% in non-critical area for all uses as currently required in Water Supply Watersheds classified as WS-II.
- Buffers
  - 100-foot wide undisturbed stream buffers in the watershed and add all reservoir tributaries to County's open space acquisition corridor priority list.
- Floodplain regulations
  - Agree not to allow development in the 100-year floodplain of the watershed.

## Workgroup Recommendations

### ➤ ILA Issues (continued)

- Access to water and sewer in watershed
  - Agree not to allow extension of water and/or sewer lines in both the critical and non-critical area of watershed, except to protect public health and safety and for developed properties only.
- Annexation in boundary area
  - Agree not to allow annexation in both critical and non-critical areas after urban service area is established.
- Streamline restoration
  - Work with Raleigh to acquire access easements for stream restoration and wetlands mitigation.
- Reservoir uses
  - Adopt similar recreational conditions as those in place for Lake Benson.

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## Next Steps

### ➤ If the BOC concurs with Recommendations:

- The BOC would initiate the process to consider amending the County's Land Use Plan to create a zoning overlay district, following all public information/comment requirements that accompany such changes. This involves:
  - Rezoning property in the critical area from an R-80W classification to R-120W, or one (1) dwelling unit per three (3) acres.
- The BOC would initiate an interlocal agreement to execute the Workgroup's recommendations and circulate to partner municipalities for approval.

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