



N.C. Ecosystem Enhancement Program



Restoring... Enhancing... Protecting Our State

CHARLOTTE LOCAL WATERSHED PLAN FACT SHEET

<p>Location: Charlotte Area River Basin: Catawba Cataloging Unit (CU): 14-digit Hydrologic Units:</p>	<p>Charlotte Area Catawba 03050103 and 03050101 03050101170010, 03050101170020, 03050103020020, 03050103020030, 03050103020050, 03050103020040, and 03050103020070</p>	<p>Catawba River Basin</p> 
<p>County:</p>	<p>Mecklenburg</p>	<p>Charlotte Area Local Watershed Planning Effort</p> 
<p>Watershed Area:</p>	<p>176, 581 acres (275 mi²)</p>	
<p>Planning Contact:</p>	<p>Anjie Ackerman – Ecosystem Enhancement Program (919) 715-1950 anjie.ackerman@ncdenr.gov</p>	
<p>Participants:</p>	<p>City of Charlotte and Mecklenburg County</p>	
<p>Contractor Hired for Watershed Assessment</p>	<p>CH2MHill</p>	

Project Overview

The Charlotte Area Local Watershed plan assessed the condition of Charlotte area watersheds by breaking down larger hydrologic units into 306 separate small catchments of 1 mi² or less. Within these catchments various parameters such as water quality data, estimated pollutant loading rates, land cover, and land use were evaluated, and the catchments were ranked according to the level of degradation observed. Six target catchments were selected to further analyze opportunities for watershed enhancement: two highly degraded catchments for restoration; two impacted, rapidly developing catchments for enhancement; and two healthy catchments for preservation activities.

Within the six catchments individual opportunities for restoration, enhancement, and preservation were explored. Proposed projects included traditional stream restoration projects as well as stormwater best management practices (BMP's). The projects were ranked according to their feasibility, cost, and pollutant reduction benefit. The final plan provided maps and descriptions of all the proposed projects as well as models of various pollution reduction strategies in order to estimate long-term watershed trends.

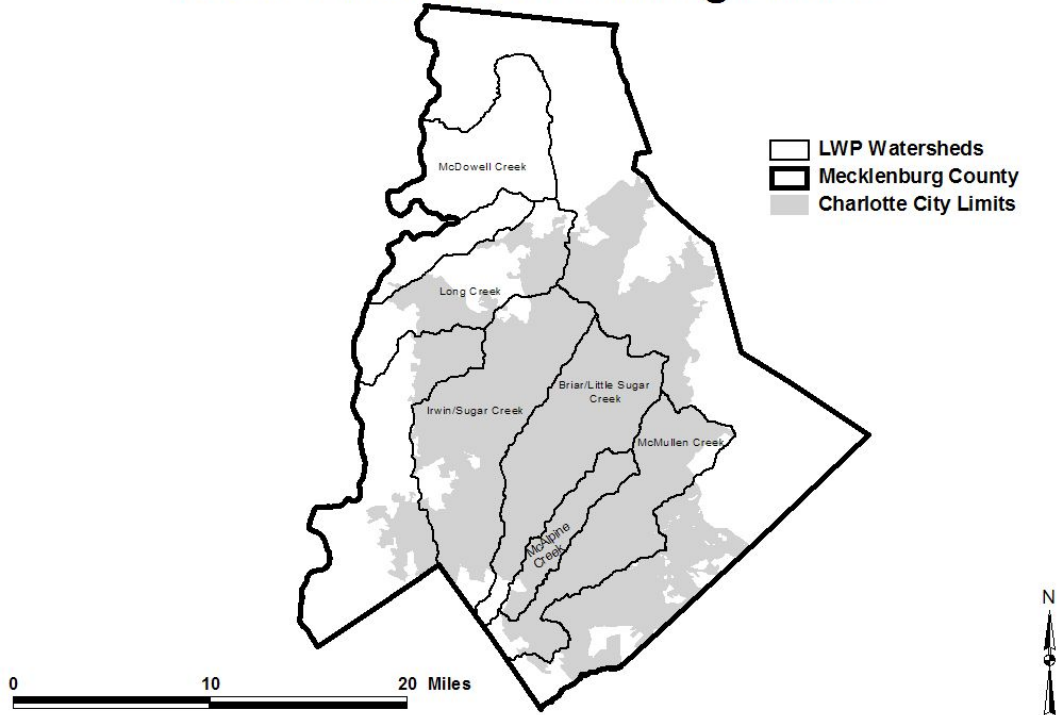
Project Schedule

The project began in 2002 and was completed in August 2003. This plan has begun a Phase IV effort.

Next Steps

EEP has contracted with Tetra Tech, Inc. to continue this planning effort by providing additional project feasibility analysis and to develop a flexible mitigation protocol for equating stormwater BMP's with wetland mitigation credit. Ideally this project will serve as a prototype for mitigation of watershed functions in highly urbanized settings. Tetra Tech will also provide implementation support in the form of preliminary landowner contact.

Map of Charlotte Area Local Watershed Planning Efforts



Documents

[Charlotte Local Watershed Plan](#)

[Technical Memorandum 1: Task 1 - Scoping of Watershed Assessment and Project Needs: Goals and Objectives, Data Collection, Subwatershed Delineation, Historical Context Review, and Indicators Establishment](#)

[Technical Memorandum 2: Task 2 - Catchment Characterization and Project Site Selection](#)

[Technical Memorandum 3a: Task 3 - Modeling Approach and Development Program](#)

[Technical Memorandum 3b: Task 3-Development of the Long Creek Watershed Model and Modeling Results for Existing Conditions](#)

[Technical Memorandum 4: Task 4-Targeting of Management](#)

[Summary of Findings and Recommendations for the Charlotte Area LWP](#)



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