



NEUSE 01 REGIONAL WATERSHED PLAN

Fact Sheet

Location River Basin: Cataloging Unit: Hydrologic Units:	Johnston and Wake Counties, NC Neuse 03020201 030202010901, 030202010902, 030202010903, 030202011001, 30202011002, 030202011003, 030202011004, 030202011005, 030202011006, 30202011007, 030202011102, 030202011103, 030202011104, 030202011105, 30202011502, 030202011503, 030202011504, and 030202011505
County:	Johnston and Wake
Watershed Area:	580 square miles
Stakeholder Involvement:	State and Federal Resource Agencies, NC Department of Transportation, Local Municipal and County Officials
Watershed Assessment Contractor:	Wildlands Engineering

Project Overview

In March 2013, DMS began the first phase of a Regional Watershed Plan (RWP) located in the upper Neuse River basin within the 8-digit catalog unit (CU) 03020201. The RWP area consists of priority subwatersheds within this CU and encompasses an area of approximately 580 square miles with at least portions of 15 municipalities located in Wake and Johnston Counties. The RWP area also incorporates two Local Watershed Planning (LWP) areas. DMS completed the Upper Swift Creek LWP in 2005 and completed development of the Phase I Preliminary Findings Report (PFR) of the Wake-Johnston Collaborative LWP in August of 2013.

Population growth and the associated rapid development create a significant need for restoration projects in the Neuse 01 CU. The I-540 corridor runs through portions of the planning area and future completion of this interstate highway loop is a major driver for mitigation in the Upper Neuse. DMS is developing the Neuse 01 RWP in order to identify and prioritize potential mitigation projects to offset ecological impacts related to highway development and construction throughout the Neuse 01 CU. These potential projects may include traditional stream and wetland mitigation as well as buffer restoration; nutrient offset; urban stormwater and agricultural BMPs; regenerative stormwater conveyances; fish and aquatic organism passage; aquatic habitat improvements; removal of flow obstructions; and rare, threatened, or endangered (RTE) species habitats preservation or enhancement. A stakeholder process was initiated in September 2013.

Phase I of the RWP was completed in July 2014 and produced a Preliminary Findings Report and a Preliminary Project Atlas. Subwatersheds (12-digit HUCs) were delineated into smaller catchments (2-5 sq mi) and Priority Subwatersheds for Water Quality, Stream Corridor and Wetland Condition were identified as well as priority subwatersheds for Important Aquatic Habitat in Phase I. Phase II of the RWP



was completed in July 2015 and produced a Final Report which summarized the results of the modeling work, the spatial analyses and the resource professional input provided to make management recommendations in the priority subwatersheds. Recommendations include example project types and project clusters, Targeted Resources Areas (TRAs) for important aquatic habitat watersheds and wetland restoration sites.

Regional Watershed Plan Documents

Phase I: Preliminary Findings Report

Phase I: Preliminary Project Atlas

Phase II: Final Report

Neuse 01 RWP Pilot Study Areas Map

Figure 1. Neuse 01 Regional Watershed Planning Area

