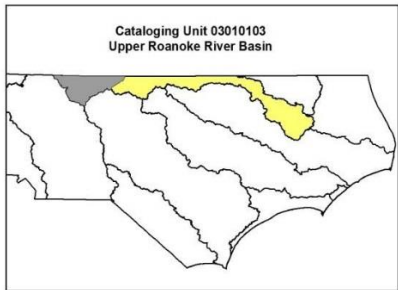
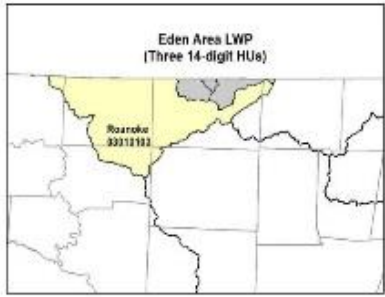


## EDEN AREA LOCAL WATERSHED PLAN FACT SHEET

<p><b>Location:</b> Eden Area</p> <p><b>River Basin:</b> Roanoke (upper Roanoke – Dan River) 03010103</p> <p><b>Cataloging Unit (CU):</b> In NC: 03010103230020, 03010103230040 and 03010103250030</p> <p><b>14-digit Hydrologic Units:</b> Rockingham</p>	 <p style="text-align: center;">Cataloging Unit 03010103 Upper Roanoke River Basin</p>
<p><b>Watershed Area:</b> 225 mi<sup>2</sup> total (119 mi<sup>2</sup> in NC)</p>	 <p style="text-align: center;">Eden Area LWP (Three 14-digit HUs)</p>
<p><b>Participants:</b> Piedmont-Triad Regional Council (PTRC), Dan River Basin Association (DRBA), City of Eden, Rockingham Soil &amp; Water Conservation District (SWCD), NC Wildlife Resources Commission (WRC), NC Natural Heritage Program (NHP), NC Div. Water Resources (DWR)</p>	
<p><b>Watershed Assessment Support:</b> NCSU Bio &amp; Ag Engineering (BAE) Team; PTRC staff</p>	

### Project Overview

The Piedmont Triad Regional Council (PTRC) received funding in 2009 to begin watershed assessment and planning work focused on the Dan River subbasin around the City of Eden, NC. This Local Watershed Plan (LWP) covers a 225-square mile area within the upper Roanoke River basin, including portions of Henry and Pittsylvania Counties in Virginia and Rockingham County in North Carolina. The North Carolina portion of the LWP area totals approximately 119 square miles and comprises three 14-digit hydrologic units (HUs) – including one current EEP targeted local watershed (TLW), 03010103230040 (middle Dan River and tributaries). [Note: the two other 14- digit HUs within the LWP area will be designated as new TLWs in an addendum to the most recent (2009) *Roanoke River Basin Restoration Priorities* (RBRP).] Major tributaries to the Dan River within the NC portion of the Eden Area LWP include the Smith River, Matrimony Creek, Town Creek, Dry Creek, White Oak Creek and Williamson Creek. The LWP includes portions of the Smith River impaired for copper violations and the Dan River, impaired for turbidity. In addition, the western portion of the study area includes water supply (WS) waters. The LWP assessment included both GIS- and field-based evaluation of watershed conditions and focused on the identification of priority subwatersheds. Watershed modeling was used to target subwatersheds and specific projects sites (including agricultural and urban BMPs) with the greatest potential to reduce erosion/sedimentation, nutrients, and fecal coliform bacteria.

A major coal ash spill discharged into the Dan River from Duke Energy ponds in Eden in early February 2014. Duke Energy completed the initial clean-up of ash and contaminated sediments in July 2014. A Natural Resource Damage Assessment (NRDA) process is

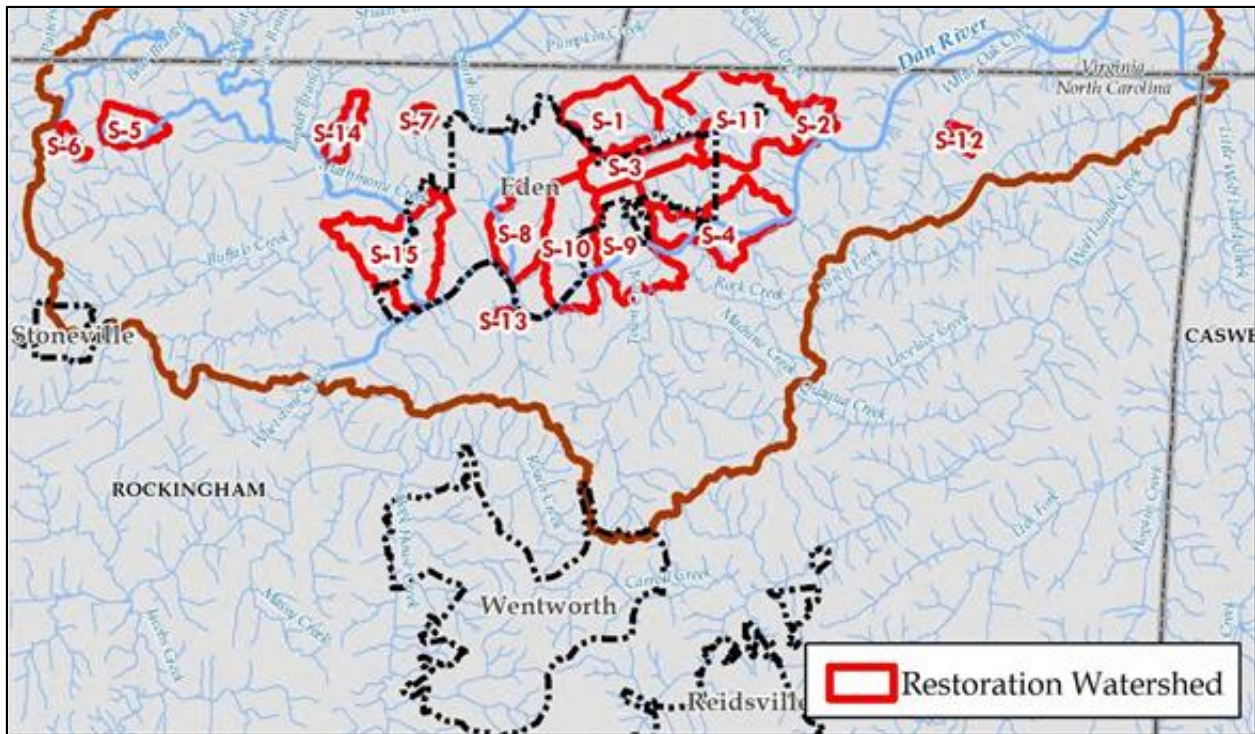
underway to determine additional mitigation/restoration actions that will be required of Duke Energy. The mitigation may include stream restoration within priority subwatersheds of the Eden Area LWP.

### **Project Schedule**

The GIS-based watershed delineation and assessment work began in January 2011. Field work to identify potential stream and wetland restoration projects and BMP sites was initiated in February 2012. The *Watershed Assessment Report* was completed in December 2012. Watershed modeling and subwatershed prioritization was completed by the NCSU BAE team in December 2013. Ten stakeholder meetings were held from February 2011 until January 2014, and the final *Watershed Restoration Plan* was produced in February 2014.

The final *Watershed Restoration Plan* includes maps of potential watershed restoration projects and BMP sites within priority subwatersheds. The final Plan also includes institutional measures (state and local policy initiatives and programs related to watershed protection), as well as an *Implementation Timeline* for key recommendations in the Plan. A primary recommendation is the development of a more robust water quality and aquatic habitat monitoring network within the LWP area.

PTRC used 205j funding to develop a *Project Atlas* (February 2016) with site-specific information and maps for the most promising project sites within high-priority subwatersheds.



### **Planning Documents**

[Eden Area Watershed Assessment \(Dec. 2012\)](#)

[Eden Area Watershed Restoration Plan \(Feb. 2014\)](#)

[Eden Area Project Atlas \(Feb. 2016\)](#)

[Summary of Findings & Recommendations](#)