



Implementing the Hickory Creek Watershed Protection Plan

Water Body	Lewisville Lake (Seg 0823)
Location:	Denton, Texas and surrounding watershed
River Basin	Trinity River Basin (8)
Contractor	City of Denton
Project Period	April 30, 2010 to August 31, 2013
Project Total	\$675,485 (Federal 60% and Local 40%)

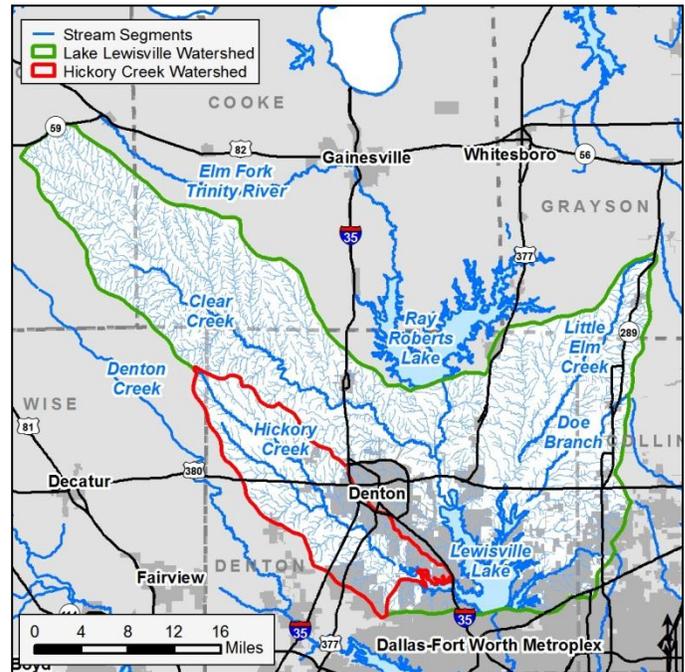
Project Description

Hickory Creek is a predominantly rural watershed that is currently meeting designated uses but is under significant development pressures. Hickory Creek serves as a good example of conditions in the larger Lake Lewisville watershed, which is also under substantial development pressures. More than one Texas Water Quality Inventory has highlighted nutrient concerns throughout the lake's watershed. To address these water quality issues, the City of Denton has developed a Watershed Protection Plan (WPP) for Hickory Creek. Sub-watershed level modeling and associated research conducted during the development of the WPP indicated that future development planned in the Hickory Creek watershed could cause further degradation of water quality and threaten designated uses. This could possibly result in a future impaired water body designation and the associated Total Maximum Daily Load (TMDL) implementation for Hickory Creek and/or Lewisville Lake.

To directly address the goals of the Hickory Creek WPP, the project included the installation of four best management practices (BMPs). The BMPs combine natural treatment techniques with proven nutrient and sediment removal abilities. Indirectly, code modifications and the initiation of project partner collaboration are intended to support water quality protection for years to come.

Current Status

Project ended in November 2013 with the completion of BMP construction at South Lake Park, Cross Timbers Park, Denton Airport, and Denton County's Road and Bridge Facility. City of Denton staff, TCEQ, and EPA continue to discuss and revise the draft WPP in order to gain EPA acceptance. There is general agreement on the content of the WPP.



Public Participation

No public participation events are planned at this time.

For More Information

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Websites

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Project Highlights

- **08/08/2008** – The WPP was completed and submitted to the EPA.
- **04/30/2010** – The Hickory Creek WPP implementation contract was signed with TCEQ.
- **09/30/2010** – The stakeholder communication plan and questionnaire was created to guide communication with the stakeholder group and increase awareness of the Lake Lewisville watershed and the Hickory Creek sub-watershed.
- **01/07/2011** – Potential BMP locations were mapped.
- **01/12/2011** – BMP types were presented to Stakeholders.
- **10/13/2011** – Submitted Modeling QAPP for review and approval.
- **05/01/2012** – Extended project to 8/31/13.
- **05/24/2012** – Held a meeting with City of Denton Staff at TCEQ to get closer to QAPP approval.
- **08/22/2012** – Modeling QAPP was executed.
- **09/21/2012** – BMP design was completed and design documents submitted to TCEQ for approval.
- **12/04/2012** – Final BMP design documents were approved by TCEQ.
- **02/28/2013** – BMP construction at South Lake Park and Cross Timbers Creek.
- **05/31/2013** – BMP construction at Denton County's Road and Bridge Facility and Denton Airport.
- **08/20/2013** – BMP construction at South Lake Park and Cross Timbers Park was completed.
- **08/31/2013** – Developed recommended code updates for watershed protection.
- **12/13/2013** – Final Report submitted to TCEQ.
- **08/31/2013** – **Implementation contract closed**
- **08/31/2014** - City of Denton staff, TCEQ, and EPA continue to discuss the draft WPP. It is anticipated that the City of Denton will submit a revised draft WPP incorporating changes agreed upon by TCEQ and EPA.