



League City Nonpoint Source Implementation Project

Water Body	Clear Creek Tidal (Segment 1101)
Location	League City, Texas
River Basin	San Jacinto-Brazos Coastal (11)
Contractor	City of League City
Project Period	August 8, 2011 to May 30, 2015
Project Total	\$1,108,393 (Federal 60% and Local 40%)

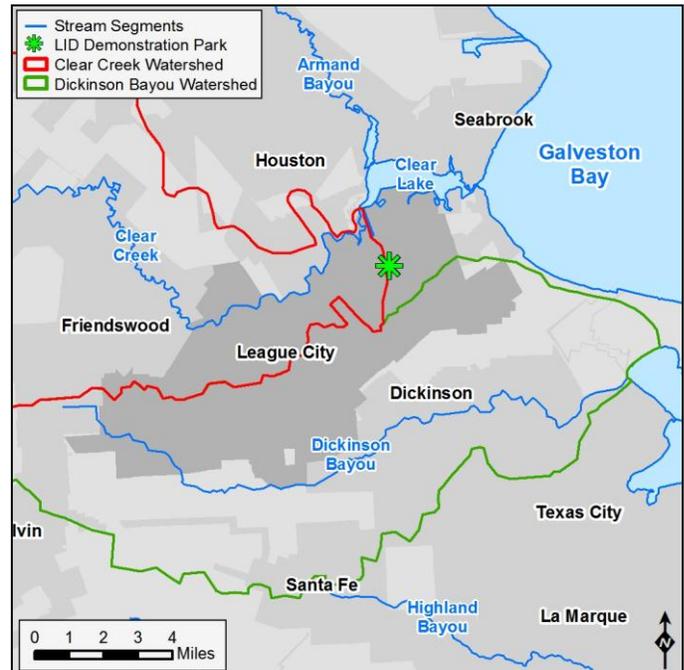
Background

League City is located southeast of the City of Houston on the south shore of Clear Lake. The city encompasses 55 square miles and has an estimated population of 71,530. A sustained growth rate of 57 percent since the 2000 census has impacted the water quality of its streams and bayous. The city straddles the boundary between the Clear Creek and Dickinson Bayou watersheds. Both water bodies are heavily used for recreational purposes but are threatened because of high bacteria levels identified on the 1996 Texas 303(d) List and all subsequent lists.

To address the impairments, a set of nine **total maximum daily loads** (TMDLs) for bacteria in Clear Creek was completed by TCEQ in 2008, and four more were added in 2012. A regional TMDL implementation plan (I-Plan) including Clear Creek was approved in 2013. A watershed **protection plan** (WPP) for Dickinson Bayou was prepared in 2009. These water quality restoration plans identify the installation of best management practices (BMP) for improving the quality of urban runoff. League City strives to be a positive example for communities on the Gulf Coast by implementing innovative technologies to improve water quality. Installing low impact development (LID) practices has been identified as a way to reduce pollution from urban runoff.

Project Description

League City has installed LID features in a demonstration park that will serve as a LID educational and demonstration tool. Area developers and residents will be able to view functioning water quality BMPs and learn how they fit into the landscape and can truly enhance the area, while improving water quality. Practices installed in the park may include: swales, rain gardens, pervious pavement, rainwater harvesting, and vegetated buffers. The performance of the LID features will be fully monitored, and this information will be made available to the public. As part of the project, the city will model stormwater runoff and use these results to evaluate and develop appropriate



stormwater ordinances. The city proposes to develop a program to retrofit commercial, residential, and public properties with LID features. The retrofit program may include the establishment of a task force, catalog of potentially viable LID practices, workshops, and standards for incorporation of LID practices into retrofitting public areas.

Current Status

Design and construction of the WaterSmart park is complete. Water quality monitoring, modeling report, and City code revision report are still pending.

For More Information

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Project Highlights

- 08/2011 – Contract executed.
- 09/2011 – A site layout diagram has been prepared.
- 03/2012 – A draft Quality Assurance Project Plan has been submitted.
- 02/2012 – The model selection report has been prepared.
- 05/2012 – Engineering design of best management practices is ongoing.
- 03/2013 – Engineering design of best management practices complete.
- 04/2013 – Construction of best management practices initiated.
- 09/2013 – TCEQ site visit
- 03/2014 – Construction of best management practices complete.
- 05/2014 – Retrofit Report complete.
- 07/2014 – Contract amended to extend contract period to May 2015.
- 08/2014 – Best management practices maintenance handbook drafted and training complete.