



Galveston Bay Low Impact Development Phase I

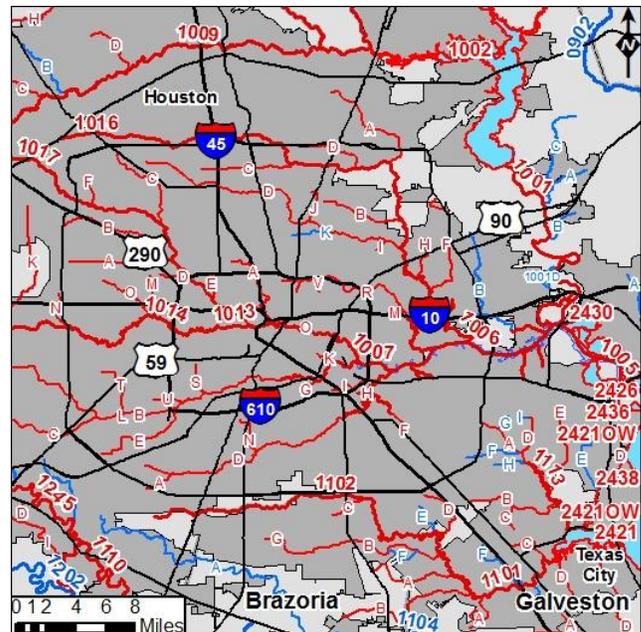
Water Body	Galveston Bay
Location	Harris County
River Basin	San Jacinto
Contractor	Bayou Preservation Association (BPA)
Project Period	September 18, 2014 to May 31, 2017
Project Total	\$109,360

Background

The City of Houston, through the Rebuild Houston program, will be reconstructing streets and drainage in most areas of the City over the next few decades. This infrastructure is to include water quality improvement features. There is a need to demonstrate Low Impact Development (LID) features which will provide the greatest water quality benefit to the City. Harris County is also guiding development/ redevelopment of infrastructure through its Harris County LID & Green Infrastructure Design Criteria for Storm Water Management manual. Harris County will revise this manual as LID techniques are demonstrated as providing water quality benefit. Data is needed on how successful LID features retain, detain, and infiltrate rainfall volumes due to Houston/ Harris County's flood prone topography. Through monitoring and modeling, this proposed demonstration project will quantify as many nonpoint source pollutant reductions as possible, including, bacteria (*E. coli*), nutrients, suspended solids, and heavy metals.

Project Description

This project engages stakeholders to; select demonstration LID best management practices (BMPs); select BMP sites; and select the water quality parameters to sample and model. The project will collect statistically significant pre-construction sample results for comparison with post-construction sampling and for modeling input. The BPA will identify several LID tools that might be effective in managing stormwater flows and in improving the quality of the water discharged into the area's streams and baysou.



Current Status

Pre-construction water quality monitoring is ongoing at the two selected sites

For More Information

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Project Highlights

- 09/2012 – Contract executed.
- 12/2013 – Stakeholder meeting.
- 01/2015 – Monitoring QAPP complete.
- 04/2015 – Pre-construction monitoring initiated.
- 05/2015 – Amendment to extend project period to May 2016 initiated.
- 7/2015 – Contract amendment executed.
- 11/2015 – Data sets submitted.
- 5/2016 – Contract amended to extend project through May 2017.
- 7/2016 – Stakeholder meeting.
- 7/2016 – Alameda Road BMP construction begins; pre-construction monitoring of 8 storm events completed on time.