



**US Army Corps
of Engineers®**
Fort Worth District

Sponsor: City of Seguin

Ecosystem restoration of Walnut Branch Flood Control Structures

Project Fact Sheet
Continuing
Authorities
Program (CAP)

Aug. 17, 2016

Type of Project: Section 206, Aquatic Ecosystem Restoration

Authorization: Water Resources
Development Act of 1996

Latest Project Milestone:
Construction completed in 2016

Contract: \$2.814 million contract
awarded Feb. 27, 2015, to Bristol
Engineering Services Corp.

Background: The project is located
in the Central Texas city of Seguin.
Walnut Branch of the Guadalupe
River runs through the center of
the city. The upper reach of Walnut
Branch is an existing Corps flood
damage reduction project consisting
of a trapezoidal, earth-line channel



The Corps used stone for a naturalized look on this retaining wall to stabilize an eroding stream bank on the Walnut Branch of the Guadalupe River. Removal of exotic species and planting of Texas natives restored this riparian forest corridor habitat in the heart of the city.

completed in 1984 and recently supplemented by two dry detention structures constructed by the city. The lower reach of Walnut Branch is fed by springs and maintains a more natural channel configuration; however, this reach has areas that are deeply incised with areas of cut-bank erosion. This lower reach has an overstory of large pecan and live oaks with very dense underbrush of hackberry, vines and other exotics such as Phragmites. The lower reach is also plagued by large piles of woody and non-woody debris, often spanning the entire width of the channel. The habitat value of these areas is being considerably improved with removal of debris and invasive species. The Corps design includes

development of riffle-pool complexes, bank stabilization and restoration with new plantings into a healthy riparian forest corridor habitat.



The Corps built this new wetland along the Walnut Branch behind the Seguin Police Department. This ecosystem restoration will create quality habitat for wildlife after the Corps of Engineers establishes a diverse population of native Texas wetland plants.