Cross Creek Ranch
Flewellen Creek Restoration Project

Fluvial Geomorphology

Biostructures

Location
Fulshear, Texas
Client
Johnson Development Corporation
Trendmaker Homes, Inc.
SWA Scope
Natural systems planning,
Conceptual and schematic design,
Construction documentation
Size
Phase 1: 63 ac., 1.15 mi.
Overall: 10 ac., 3.0 mi.
Environmental Consultants
Biohabitats Inc.
Awards
ASLA Texas Chapter Merit Award:
Residential Design Constructed
Greater Houston Builders
Association (GHBA)
Master Planned Community
and Landscape Design
of the Year

Native Grass Restoration

Riparian Reforestation

Cross Creek Ranch Master Plan

Located within the master planned community of Cross Creek Ranch, the three mile long Flewellen Creek Project is the centerpiece of an extensive greenbelt system and environmental restoration effort for the 3,200-acre parcel. The site's historic agrarian land use resulted in a straightened creek with failing slopes, high sediment content, invasive plants, degraded wildlife habitat, and unstable stream flow dynamics. In consultation with Biohabitats, SWA's design work was based on an examination of the region's natural floodplains and local fluvial geomorphologic patterns. The results have yielded a corridor rich in riparian reforestation along the newly meandering base flow channel, large native prairie meadows found in the creek bottomlands, and water cleansing wetlands located where community effluent discharges into the creek. Residents and local citizens have access to the corridor and adjacent parks through multi-use trails threading through the various restored ecotones, while the community's other homeowners, local wildlife, have made use of installed habitat structures such as standing snags, brush piles, root wads, and other large woody debris.