

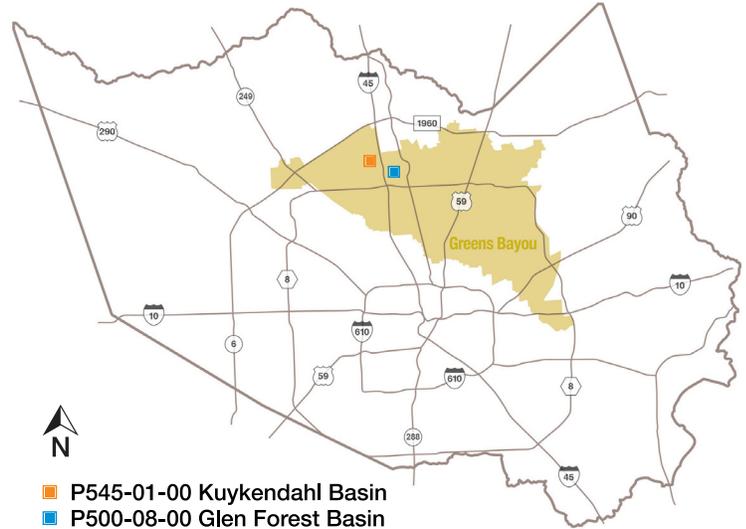
MAJOR PROJECTS IN THE GREENS BAYOU WATERSHED

Progress Greens is the name given to a suite of flood damage reduction projects currently active in the Greens Bayou watershed of Harris County. The Harris County Flood Control District is taking the lead in some of those projects, with grant assistance from the Federal Emergency Management Agency (FEMA). In others, the U.S. Army Corps of Engineers will design and construct the project, with partnership assistance from the Flood Control District. All projects under the **Progress Greens** umbrella will function together to reduce flooding risks and damages for residents and businesses within the 213 square miles of the Greens Bayou watershed.

Mid-Reach Stormwater Detention Basins

In February 2015, FEMA awarded \$39.2 million to the Harris County Flood Control District, under the Hurricane Ike Hazard Mitigation Grant Program (HMGP), for the construction of two stormwater detention basins in the Greens Bayou watershed. The Flood Control District is contributing matching funds to the project.

In June 2015, Harris County Commissioners Court awarded a \$63.7 million construction contract to low bidder Ceres Environmental Services Inc. to construct the two basins over a three-year time period.



The combined basins project will be the largest single construction contract ever managed by the Flood Control District. When complete, the two basins will reduce or remove flooding risks and damages from more than 1,100 structures along Greens Bayou, resulting in avoided damages of more than \$90 million.

Kuykendahl Stormwater Detention Basin (HCFCF Unit P545-01-00)



- 300-acre site west of the intersection of Kuykendahl Road and Ella Boulevard in north Harris County.
- Project includes detention basin excavation, and channel and storm sewer construction.
- Construction is expected to begin in late summer 2015.
- Project will remove approximately 3.61 million cubic yards of soil.
- Work will involve significant truck traffic entering and exiting the site – possibly ‘round the clock – to meet grant funding deadlines.
- Primary access for construction traffic will be from Kuykendahl Road. **Please observe posted warning signs and obey safety personnel during hours of heaviest construction traffic.**
- Completed basin is designed to hold approximately 2,238 acre-feet, or 729.1 million gallons of stormwater.
- Following construction, the basin design calls for 22.19 acres of native tree and shrub plantings, 12.79 acres of stormwater quality treatment wetlands, and 14.04 acres of other created wetlands to replace those impacted by construction.
- Natural channel design features – including a bankfull bench, constructed riffles, cross-vanes and native woody riparian vegetation – will be used to provide long-term stabilization and enhancement of the existing channel (HCFCF Unit P245-00-00) within the basin.

Stormwater detention basins reduce flooding risks and damages during heavy rain events by safely storing excess floodwater and slowly releasing it back to the bayou when the threat of flooding has passed.

Glen Forest Stormwater Detention Basin (HCFCD Unit P500-08-00)

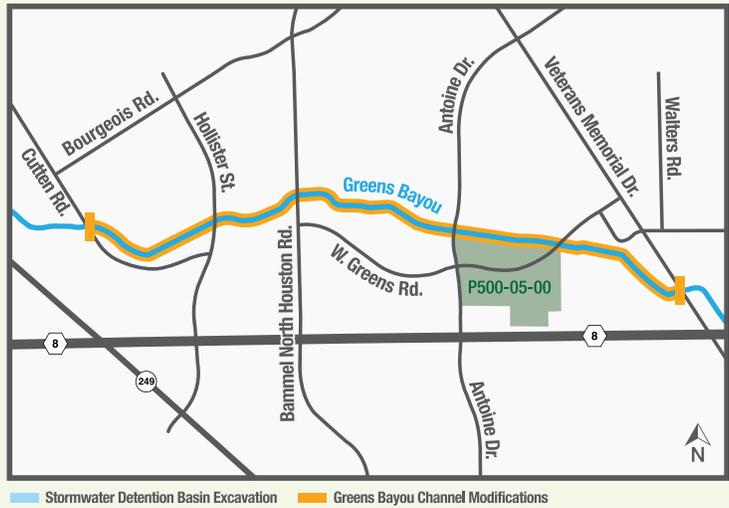
- 160-acre site near Greens Road and Interstate 45.
- Project includes excavation of three interconnecting detention basin cells and installation of drainage outfalls, headwalls, overflow weirs and erosion control measures.
- Construction expected to begin in late summer 2015.
- Project will remove approximately 2.15 million cubic yards of soil.
- Work will involve significant truck traffic entering and exiting the site – possibly ‘round the clock – to meet grant funding deadlines.
- Access for construction traffic will be from the I-45 frontage road.
- **Please observe posted warning signs and obey safety personnel during hours of highest construction traffic.**
- Completed basin is designed to hold approximately 1,333 acre-feet, or 434.2 million gallons of stormwater.
- Following construction, the basin design calls for 2.75 acres of native tree and shrub plantings and 0.81 acres of stormwater quality treatment wetlands.
- Natural channel design features – including riffles, pools and a natural meander pattern – are used in the low-flow channel within the basin to provide environmental and water quality enhancement.



Questions or comments about the projects?

Call the Flood Control District’s Project and Study Information Line, which is monitored daily, at 713-684-4040 or Email ProjectCommunications@hcfcd.org. Sign up for project updates at hcfcd.org/XXXXX.

Greens Bayou Federal Flood Risk Reduction Project



Antoine Stormwater Detention Basin (HCFCD Unit P500-05-00)

- 138-acre site just north of Sam Houston Parkway and west of Antoine Drive.
- Part of the Greens Bayou Federal Flood Risk Reduction Project, authorized in 1990.
- The Corps will manage, design and build the project.
- Flood Control District purchased the detention basin site; is also responsible for easements, rights-of-way, utility relocation, bridge adjustments (except for railroads), plus operating and maintaining the basin after construction.
- “New Start” construction funding of \$8 million allocated in the fiscal year 2015 budget for the Corps’ Civil Works program.
- Project Partnership Agreement between Corps and Flood Control District signed in May 2015.
- First construction contract expected to be awarded in the third quarter of 2015.
- Estimated time to design, build and closeout is four years.
- Federal project also includes 3.7 miles of channel conveyance improvements between Veterans Memorial Drive and Cutten Road, and environmental and aesthetic features in the channel and detention basin.

What We Do

The Harris County Flood Control District was initially created in 1937 to serve as a local partner to the U.S. Army Corps of Engineers to build projects that reduce flooding risks and damages from major bayous and creeks in Harris County. While the District still fulfills that role, its responsibilities and capabilities have expanded over the years. The mission of the Flood Control District is to provide flood damage reduction projects that work, with appropriate regard for community and natural values. The Flood Control District accomplishes its mission by devising flood damage reduction plans, implementing the plans and maintaining the infrastructure.