

Engineering With Nature Proving Ground SWG *Status Report*

Eddie Irigoyen

7 June 2016

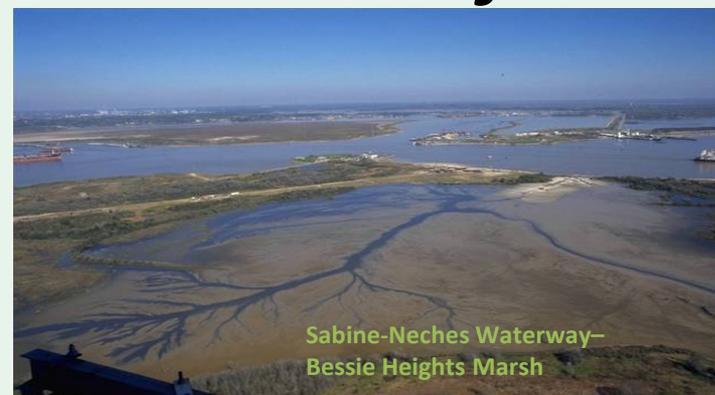
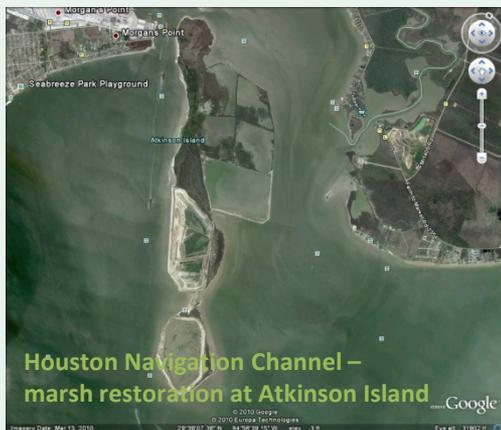


Most Significant Contributions Beneficial Use



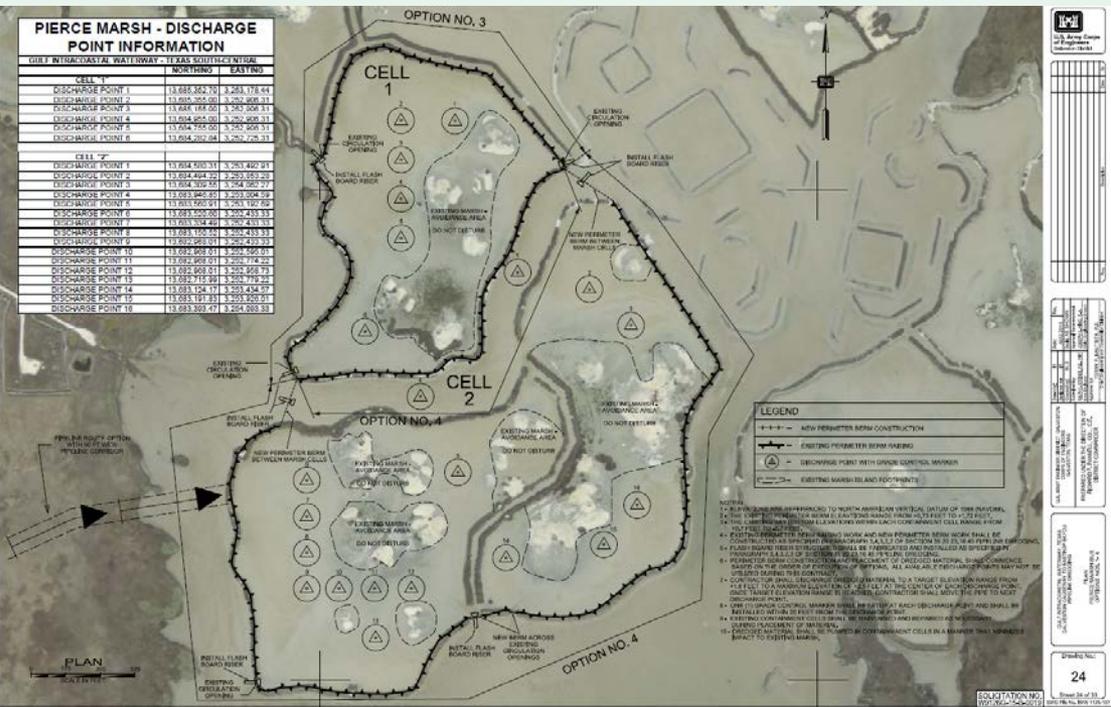
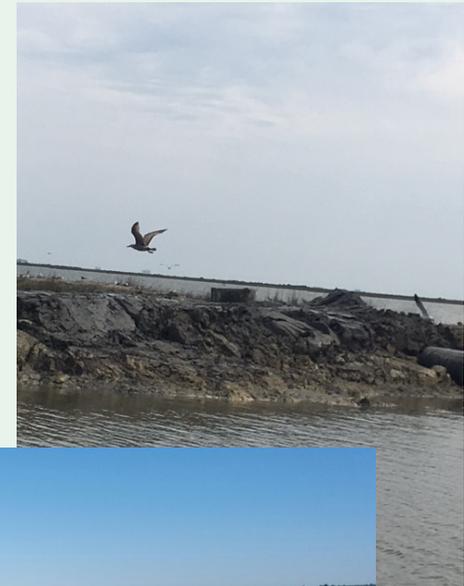
Most Significant Contributions

Notable Galveston District BU Projects



Current Projects

- Marsh Restoration in Pierce Marsh on West Bay in the Galveston Bay Estuary.

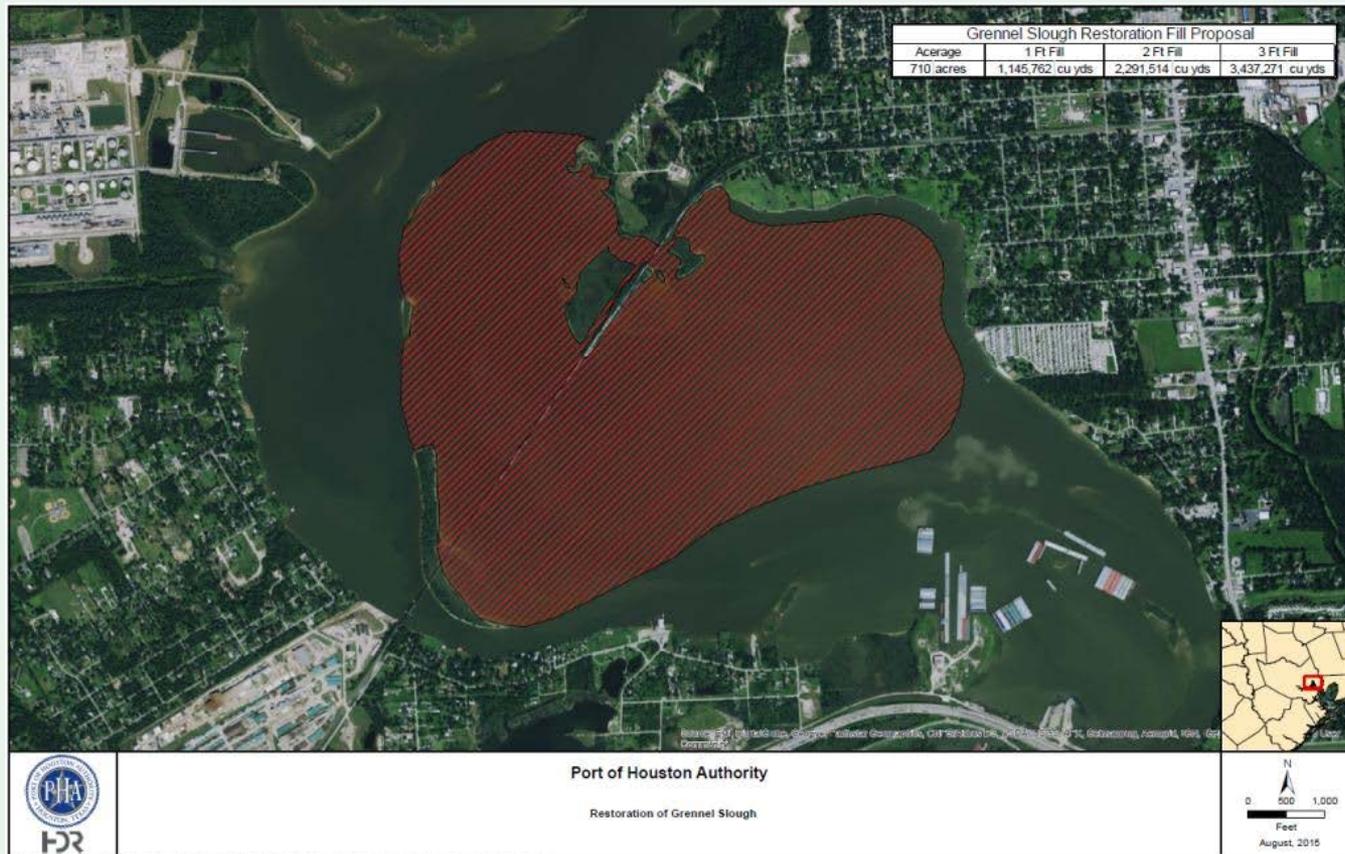


Challenges

- *trying to increase BU?*
- Actively identify projects
- Re-evaluate our DMMPs
- Work with the RSM program
- Bring together Corps and Resource Agencies
- Working closely with our Non-Federal Sponsors

FY17 Plans

1. Restoration of Grennel Slough, San Jacinto River



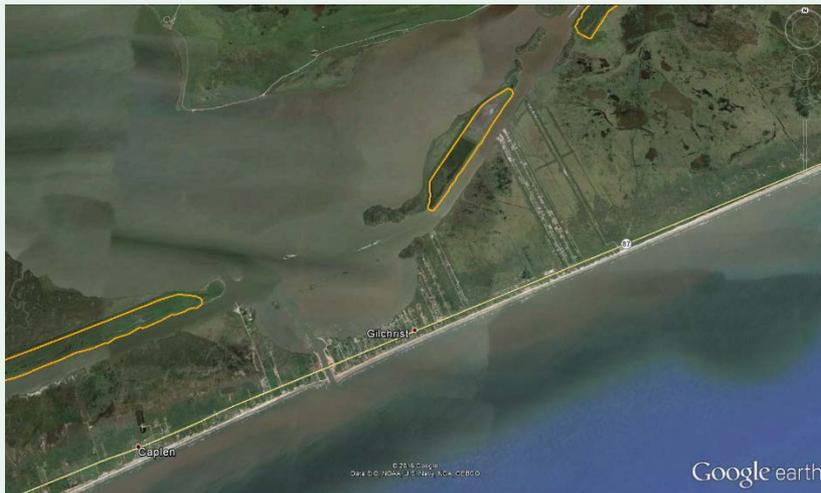
FY17 Plans

1. Restoration of Submerged Aquatic Habitat, Galveston Bay.



FY17 Plans

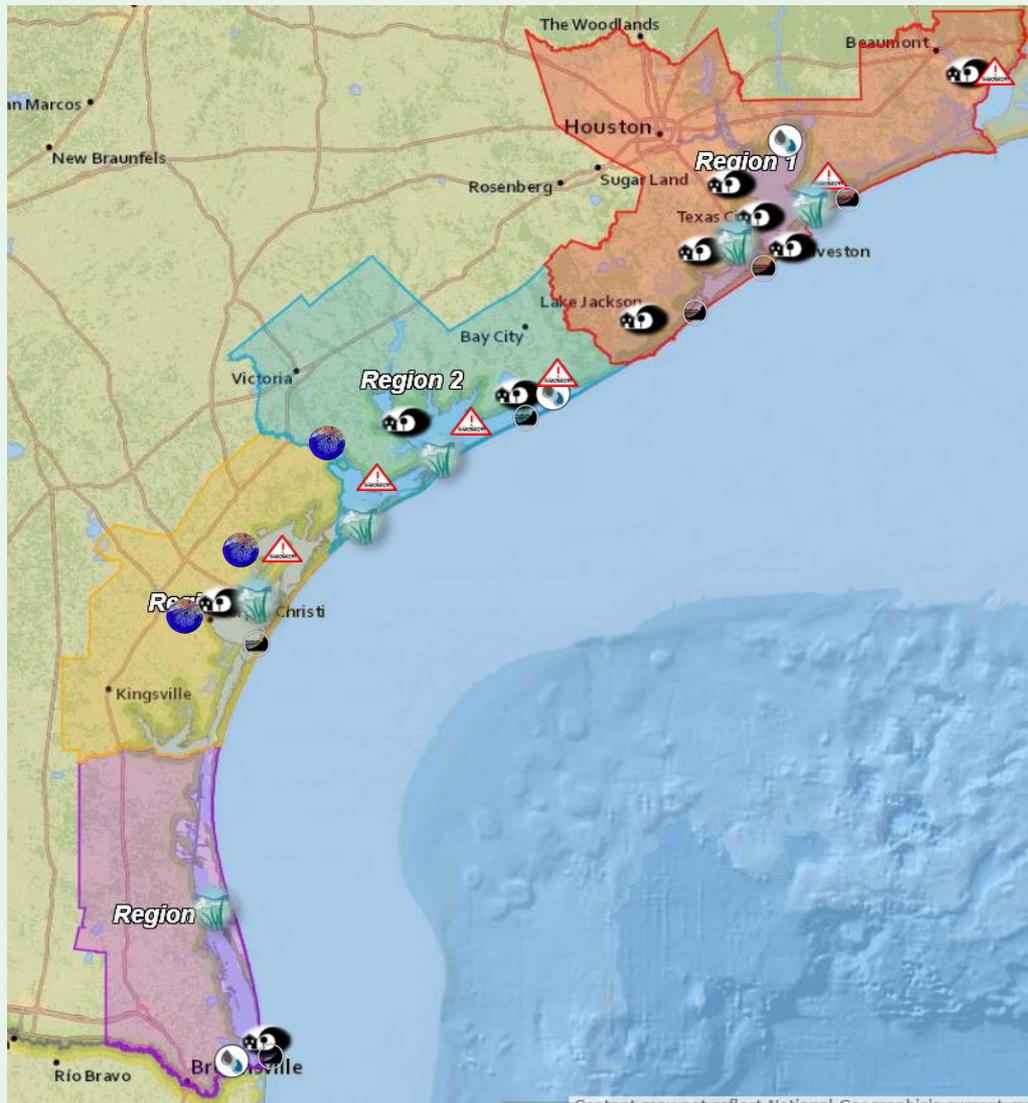
- Working with GLO and TxDOT using dredged material from the GIWW for ecosystem restoration. Bird island at Rollover Pass, Pierce Marsh, and Dressing Point Island. We will be utilizing the CAP Sections 204 and 1135.



FY17 Plans

- **Native Plant Community Development on Dredge Material Placement Areas**
 - Guidance will be developed highlighting the use of native plant communities as vegetative treatments providing effective, low cost solutions, to stabilize DMPAs/CDFs while providing engineering and environmental benefits.
 - The guidance developed through this research will identify and document the use of native plant communities to provide sustainable solutions for management of DMPAs/CDFs, as well as maximize the ecological and engineering benefits attainable through strategic planning, placement, management and eventual transition following closures.

Future Opportunities



Economic damage from coastal storm surge



Inland shoreline erosion



Gulf shoreline erosion



Loss of Critical Habitats

(migratory bird habitat, critical T&E habitat, shellfish habitat)



Loss of Natural Delta Processes



Water Quality Issues

Future Opportunities

- Partnering with Texas A&M for Dune Establishment



Eddie Irigoyen

Project Manager

US Army Corps of Engineers

Galveston District

eduardo.irigoyen@usace.army.mil

409-766-3130

