USACE Galveston District Overview

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US Army Corps of Engineers Overview





Mission

Deliver vital engineering solutions, in collaboration with our partners, to secure our Nation, energize our economy, and reduce disaster risk

Vision

Engineering solutions for the Nation's toughest challenges

Priorities

People Readiness Partnerships Innovate



Winning = <u>Finishing</u> quality projects, on time and within budget ... **SAFELY**

USACE SWG – Ready | Responsive | Relevant





USACE SWG – Ready | Responsive | Relevant





• Established in 1880

- First engineer district in Texas to oversee river and harbor improvements.
- **Missions.** Navigation, flood risk mitigation, regulatory support, environmental, shoreline protection, emergency management, support for other districts (including military construction).
- **Boundaries. 50,000** square miles, includes **700** miles of coastline from the Rio Grande to Sabine River, covers **49** counties, **4** parishes and **16** congressional districts.
- Maintains 1,000+ miles of channel, including 270 miles deep draft and 750 miles shallow draft.
- Maintains and Operates. 2 critical dams, the Colorado River Locks and Brazos River Floodgates and 4 outlying project offices.
- **Sustains waterways.** Benefitting **28** ports handling **400** million tons of commerce annually.
- **Dredges. 15-25** million cubic yards of material annually. If placed on one city block, it would create a mountain **14,000** feet above sea level.
- Employs **beneficial use of dredged material** to build coastal defenses when possible.





- I. Flood Risk Management
- II. Coastal Storm Risk Management
- III. Emergency Management
- IV. Ecosystem Restoration
- V. Regulatory
- VI. Navigation



USACE SWG - CSRM and FRM System of Systems

People

Home to approx. 10 Million people including the city of Houston (4th largest in U.S.) Demographically diverse Significant vulnerable population centers

Infrastructure

(Petrochemical, Supply Chain, Municipal)

40% of the US petrochemical industry 25% of the US refining capacity (including 3 of the top 10 in the world) #1 Deep Draft Port in the US and the Texas Coast is collectively 25% National Deep Draft capacity

Key import gateway for renewable energy products

Environment

Attracts 3 million visitors who spend approx. \$1.6B annually

Agriculture/commercial fisheries represent another \$500M and \$156M respectively Habitat for Kemp's Ridley Sea Turtle (endangered species)



USACE SWG Flood Risk Management – Buffalo Bayou & Tributaries Addicks & Barker Dams/Reservoirs

Addicks and Barker Reservoirs are designed to **reduce flood damage** along Buffalo Bayou that flows through Houston serving approximately 1.2 Million people

- Original construction costs were approximately \$4M
- Authorized by the Rivers and Harbors Act of 1938
- Recent dam safety project fully funded through federal dollars @ \$124,306,000

Addicks and Barker | Facebook





USACE SWG - Coastal Texas Project









USACE SWG - EM / Critical Public Facilities Team - Lahaina

King Kamehameha III Elementary School Temporary Facility Assistance

- School destroyed in 2023 Lahaina fires
- SWG team deployed on site
- Designing and overseeing project complete in partnership with State of Hawaii, Federal Emergency Management Agency (FEMA), and Department of Education
- \$5.36M FEMA funding
- USACE incident commander estimating 95 days till completion

State partners with Corps of Engineers to erect



USACE SWG Navigation - National Relative Deep Draft Tonnage









USACE SWG - Wallisville Lake Project

The Wallisville Lake Project was authorized by Congress in 1952 for five purposes

- Navigation
- Salinity control
- Water supply
- Fish and wildlife enhancement

Recreation

Galveston District > Locations > Wallisville Lake Project Office (army.mil)

USACE SWG - Ecosystem Restoration Project - Brownsville Area Resacas

Regional Benefits & Value to the Nation

- Improve value and function of overall ecosystem
- Connect high quality habitat to surrounding ecosystems
- ~625 acres of terrestrial riparian habitat restoration
- Clear invasive species and replant native plants
- 220 acres of aquatic habitat restoration
- FRM and water supply benefits
- Remove sediment, expand aquatic areas, and shape banks
- Plant aquatic and emergent vegetation along **33 miles** of shoreline
- Post implementation management plan monitor and manage species







USACE Galveston District - Beneficial Use Program





<u>Champions</u>

of the Texas Coast

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THURSDAY





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USACE Galveston District

