

United States Army Corps of Engineers

Galveston District Annual Dredging Meeting

3 December 2015

*COL Richard Pannell
Commander*

*Galveston District
U.S. Army Corps of Engineers*

This briefing is UNCLASSIFIED



US Army Corps of Engineers
BUILDING STRONG®



USACE Vision

**Engineering Solutions for our Nation's
Toughest Challenges.**

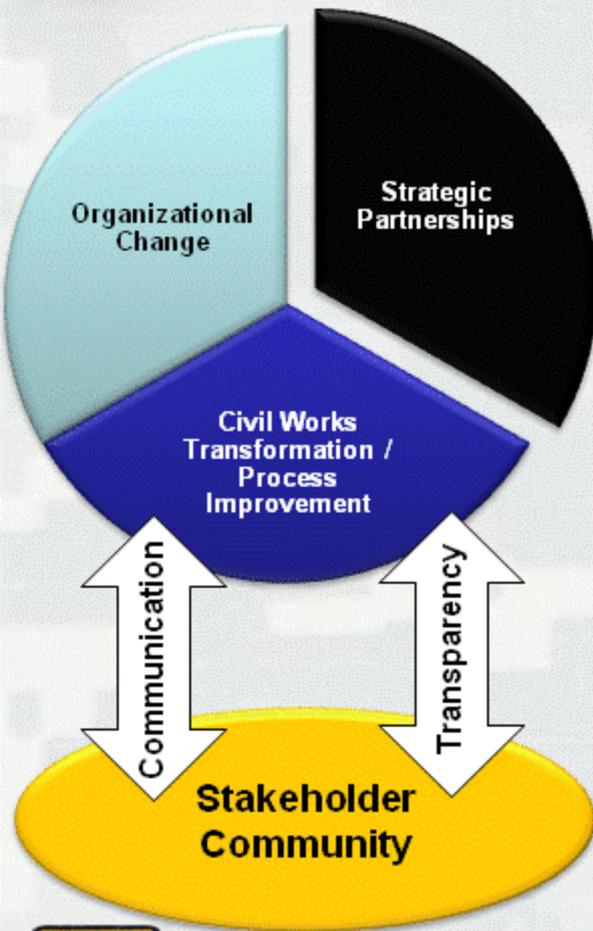
USACE Mission

Deliver vital public and military engineering services; partnering in peace and war to strengthen our Nation's security, energize the economy and reduce risks from disasters.



Texas Coast Strategy

Maximizing Capital



Lines of Effort



Future



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Navigation Improvement

Houston Ship Channel Feasibility Study, TX

3x3x3 Exemption Briefing

COL Richard P. Pannell

Commander, Galveston District



28 September 2015



Navigation:

- Houston Ship Channel Improvement
- Sabine Neches Waterway Improvement
- Corpus Christi Ship Channel Improvement
- Gulf Intracoastal Waterway Improvement Studies
- Freeport Ship Channel Improvement
- Galveston Ship Channel Extension
- Matagorda Ship Channel Improvement
- Brazos Island Harbor Improvement



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Operations & Maintenance



FY15 Program: Allocated ~ \$130 million

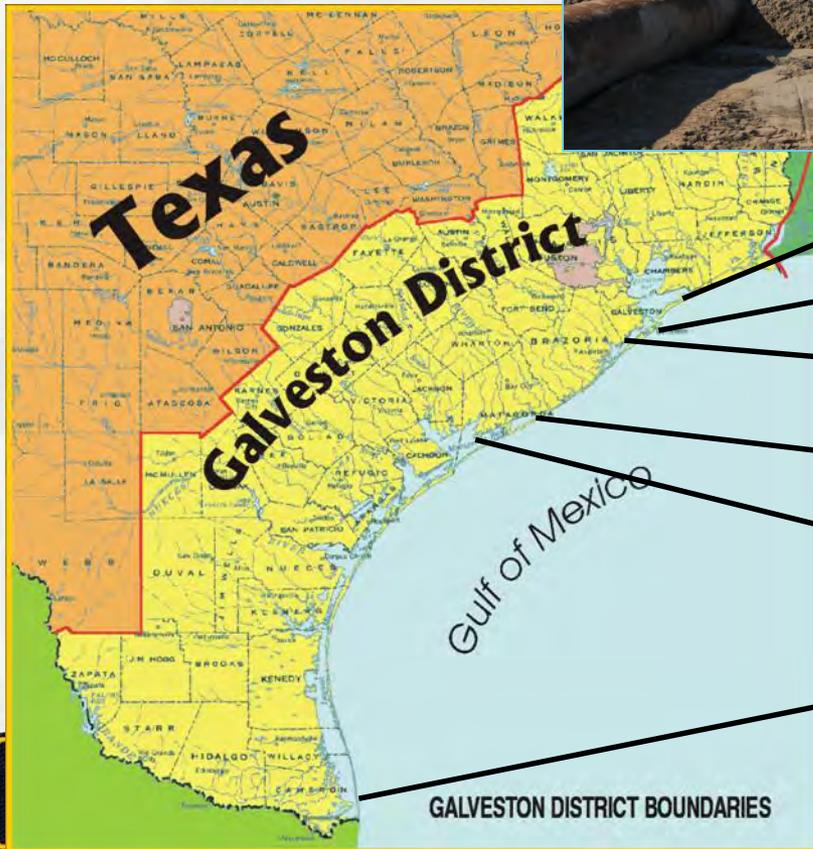
- Dredging
- Placement Area repair
- Beneficial Use of Dredged Material
- Shoreline stabilization
- Project Operations
 - Brazos River Floodgates
 - Colorado River Locks
 - Addicks & Barker Dams
 - Wallisville Salt Water Barrier



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Beneficial Use Program



Roll-over Pass (~1YR).....	150,000
Galveston(~2 Yrs).....	750,000
Pierce Marsh (GIWW, ~3YR).....	100,000
Sergeant Beach (~3YR).....	65,000
Sundown Island (~1YR).....	50,000
SPI (~1-2YR).....	700,000
TOTAL FY15:	1,915,000



District Initiatives

Innovative Tools & Thinking

- Regional Sediment Management
- Dredged Material Optimization
- Engineering With Nature
- GIS Visualization
- Small Unmanned Aerial Systems (sUAS)

Status	Contract Delivery	Location	Project Name
✓	W91260-13-C-0023 BA	Houston Ship Channel	Baytowns Out Terminal, Houston
✗	W91260-13-C-0030 BA	South Padre Island / Fort Isabel	FT33 Brownsville Ship Ch. Sd
✗	W91260-13-C-0031 BA	Brazoria County, Texas	Freeport Entrance and Jetty C
✗	W91260-13-C-0041 BA		Galveston Harbor Moppar Dred
✗	W91260-13-C-0042 BA	Port Arthur, Texas	SHW, Neches River Channel
✗	W91260-13-C-0047 BA	CGTN, High Island to Port Belvoir	CGTN - High Island to Belvoir
✗	W91260-13-C-0099 BA	Freeport Harbor, TX	Freeport Harbor, Solar Chan

SWG RSM Houston Ship Channel Placement Area Optimization Viewer
This viewer displays the output of the various tools created by ERDC to manage dredged material placement.

Layers

- Current Dredging Plan (D2M2)
 - Equal Weights
 - Galveston
 - Houston Ship Channel
 - Texas City
 - Minimize Costs
 - Environmental Data
- Channel Shoaling Rate (CSAT)
- Sediment Budget (SBSA)
- Sediment Boring Locations (SAGA)
- Bathymetry
- Navigation Channel Alignment (NCF)
- Inactive Placement Areas
- Active Placement Areas
- Nautical Charts

Identify

- Measurement

USACE Regional Sediment Management (RSM)

Regional Sediment Management is...

Galveston Entrance Channel RSM

Lessons Learned from Coastal Beneficial Features in Galveston Bay and Application of Engineering With Nature (EWN)

Georganna B. Collins
Edmond J. Russo, Jr., PhD, PE, D.CE, D.NE, D.WRE
Todd S. Bridges, PhD

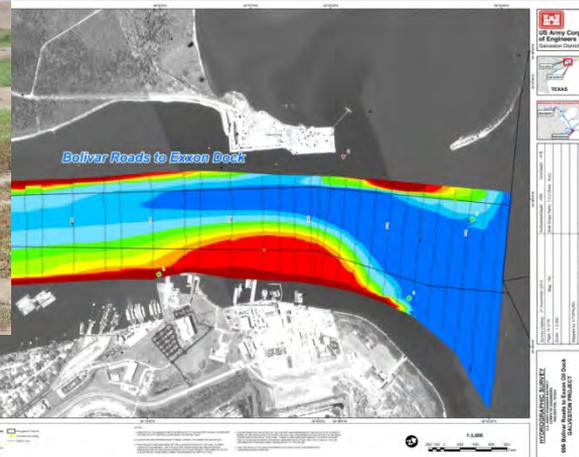
1:45-2:15 pm, Tuesday, June 23, 2015



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International Specialists in the Environment



Success = Partnerships

Federal, State, Local, Academia, Others, ...

Reduce Ocean Disposal

Reduce Upland Disturbance



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