

# FY-16 Scheduled Contracts

# FY-17 Planned Contracts

**Christopher Frabotta**

*Deputy Chief, Operations Division /*

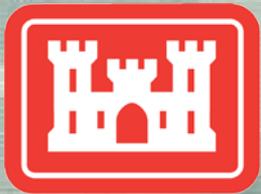
*Chief, Navigation Branch*

*Southwestern Division - Galveston District*

*November 19, 2015*

***Galveston District – Dredging Meeting***

***Custodians of the Texas Coast***



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# GALVESTON NAVIGATION OM FUNDING

## FY-15 Execution

President's Budget	\$113,351,000
FY-15 Allocation	\$131,892,000
Carry-in	<u>\$ 15,739,000</u>
Available to Obligate	\$147,632,000

Obligated \$126,068,000

Percent Execution 85.4%

## FY-16 Funding Outlook

President's Budget	\$110,404,000
Carry-in	\$ 21,564,000
Total Anticipated	\$131,968,000





# FY-16 INITIATIVES

- **Continue Hydrographic Survey Webpage**
  - All six (6) Deep Draft Nav. Complexes now online
  - Gulf Intracoastal Waterway this year
  
- **Implement of Vertical Datum Conversion**
  
- **Sabine-Neches Waterway Set-Back Policy**
  
- **Restore TCOON Functionality to 30 Stations**
  - Bring new Sentinel Stations online
  
- **Re-Space & Deploy new GIWW Mooring Buoys**



# HYDROGRAPHIC SURVEY WEBSITE

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## Hydrographic Surveys Brief



### MISSION STATEMENT

The U.S. Army Corps of Engineers' navigation mission is to provide safe, reliable, efficient and environmentally sustainable waterborne transportation systems (channels, harbors, and waterways) for movement of commerce, national security needs, and recreation.

The Mission of the Galveston District Navigation Branch is to manage federal navigation projects along the Texas coastal region.

### SURVEY MAPS

The products are reproduced from geospatial information prepared by the U.S. Army Corps of Engineers. GIS data and product accuracy may vary. Data may be: developed from sources of differing accuracy, accurate only at certain scales, based on modeling or interpretation, incomplete while being created or revised, etc. Using GIS products for purposes other than those for which they were created may yield inaccurate or misleading results. The Corps of Engineers reserves the right to correct, update, modify, or replace GIS products without notification.

The information depicted on the survey maps represent the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time. These conditions are subject to rapid change due to shoaling events. A prudent mariner should not rely exclusively on the information provided here. Required by 33 cfr 209.325

## Hydrographic Surveys

Sabine Neches Waterway

Galveston - Texas City - Houston

Freeport Harbor

Matagorda Ship Channel

Corpus Christi

Brazos Island Harbor

Port Isabel Channel

## Corps Connections

Dredging/Marine Construction

Beneficial Use of Dredge Material

# HYDROGRAPHIC SURVEY WEBSITE



US Army Corps of Engineers

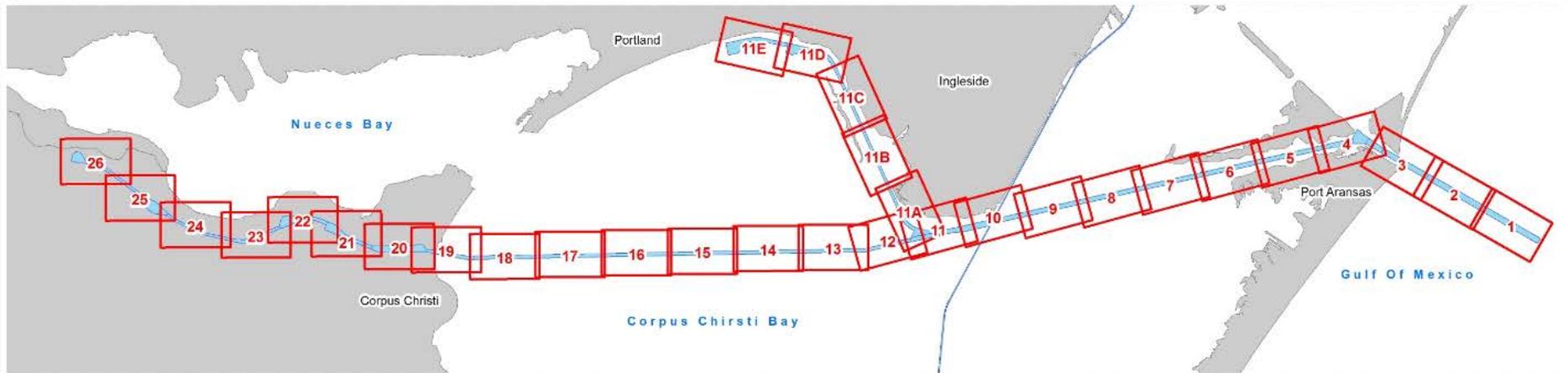
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## Corpus Christi Shipping Channels



## Corpus Christi Shipping Channels

Map	Channel	Survey Date	Survey Data (PDF, XYZ)
1	Sea Bar Channel	June 25, 2015	ZIP

# HYDROGRAPHIC SURVEY WEBSITE

Frabotta, Christopher SWG > AppData > Local > Microsoft > Windows > Temporary Internet Files > Content.IE5 > C25LKWSP > LA\_02\_LTB\_20140402\_47.zip

Organize Extract all files

3 items

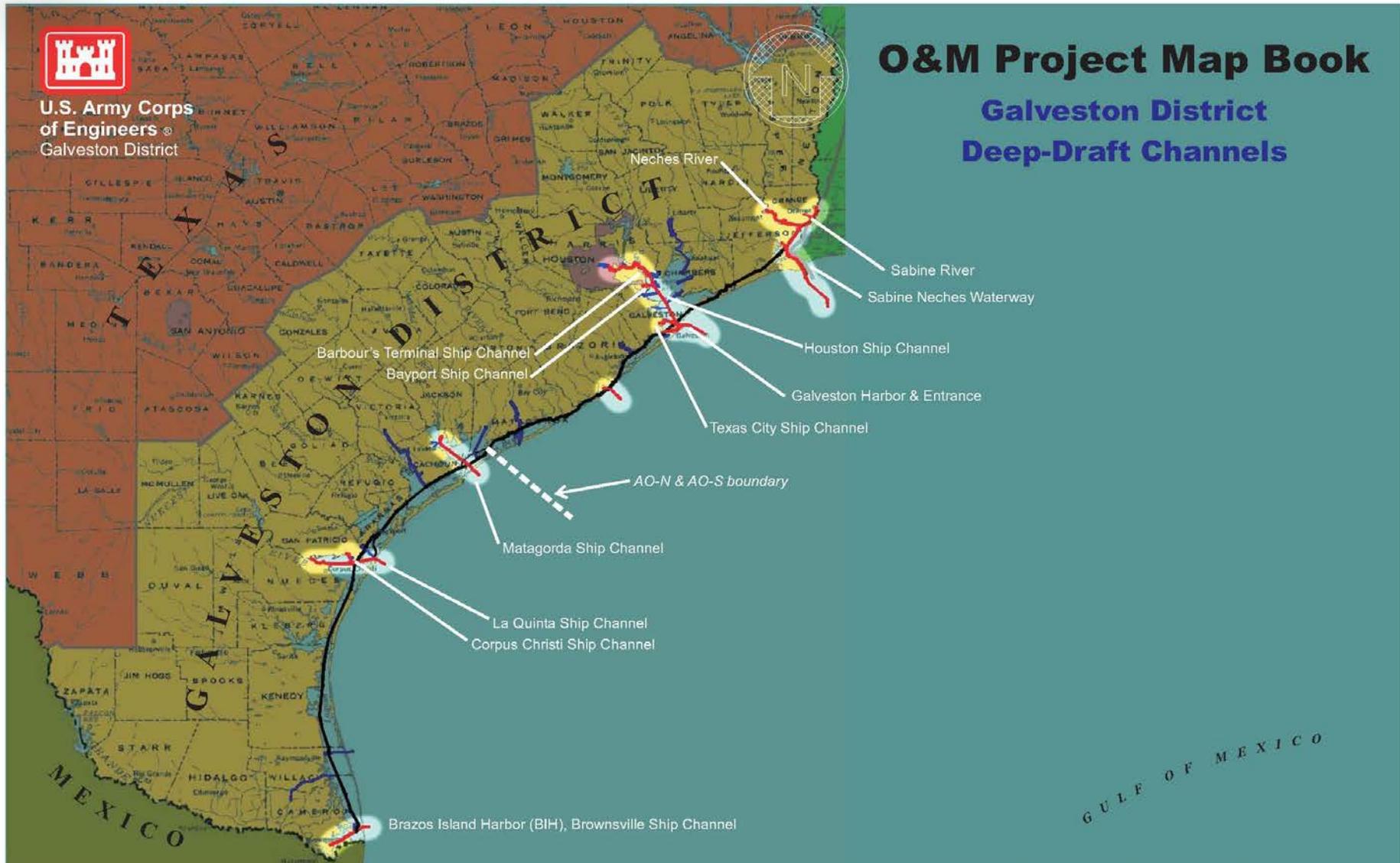
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LA_02_LTB_20140402.xyz	XYZ File	104 KB	No	493 KB	79%	10/17/2014 12:17 PM
LA_02_LTB_20140402_47.pdf	Adobe Acrobat Document	3,156 KB	No	3,177 KB	1%	10/21/2014 2:06 PM

3 items





# DEEP DRAFT FY16 CONTRACT SCHEDULES





# SABINE-NECHES WATERWAY PORT ARTHUR CANAL, TURNING BASIN, JUNCTION AREA AND TAYLORS BAYOU



<b>Project:</b>	Sabine-Neches Waterway Port Arthur Canal, Turning Basin, Junction Area and Taylors Bayou
Dredging Depth:	42 ft. Required Depth
Dredging Width:	400 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	3,000,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	PA 8 and PA 9
Distance to Place Area:	1.5 - 2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Est. Start Date	August 15, 2016
Est. Completion Date	January 18, 2017

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# SABINE-NECHES WATERWAY OUTER BAR AND BANK CHANNEL



<b>Project:</b>	<b>Sabine Neches Waterway Outer Bar and Bank Channel</b>
Dredging Depth:	44 ft. Required Depth
Dredging Width:	800 ft.
Dredging Length:	Varies
Dredging Quantity:	2,500,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	Offshore
Distance to Placement Area:	3 Mile Avg.
Type of Equipment:	Hopper
Env. Window	NA
Est. Start Date	July 6, 2016
Est. Completion Date	April 2, 2017

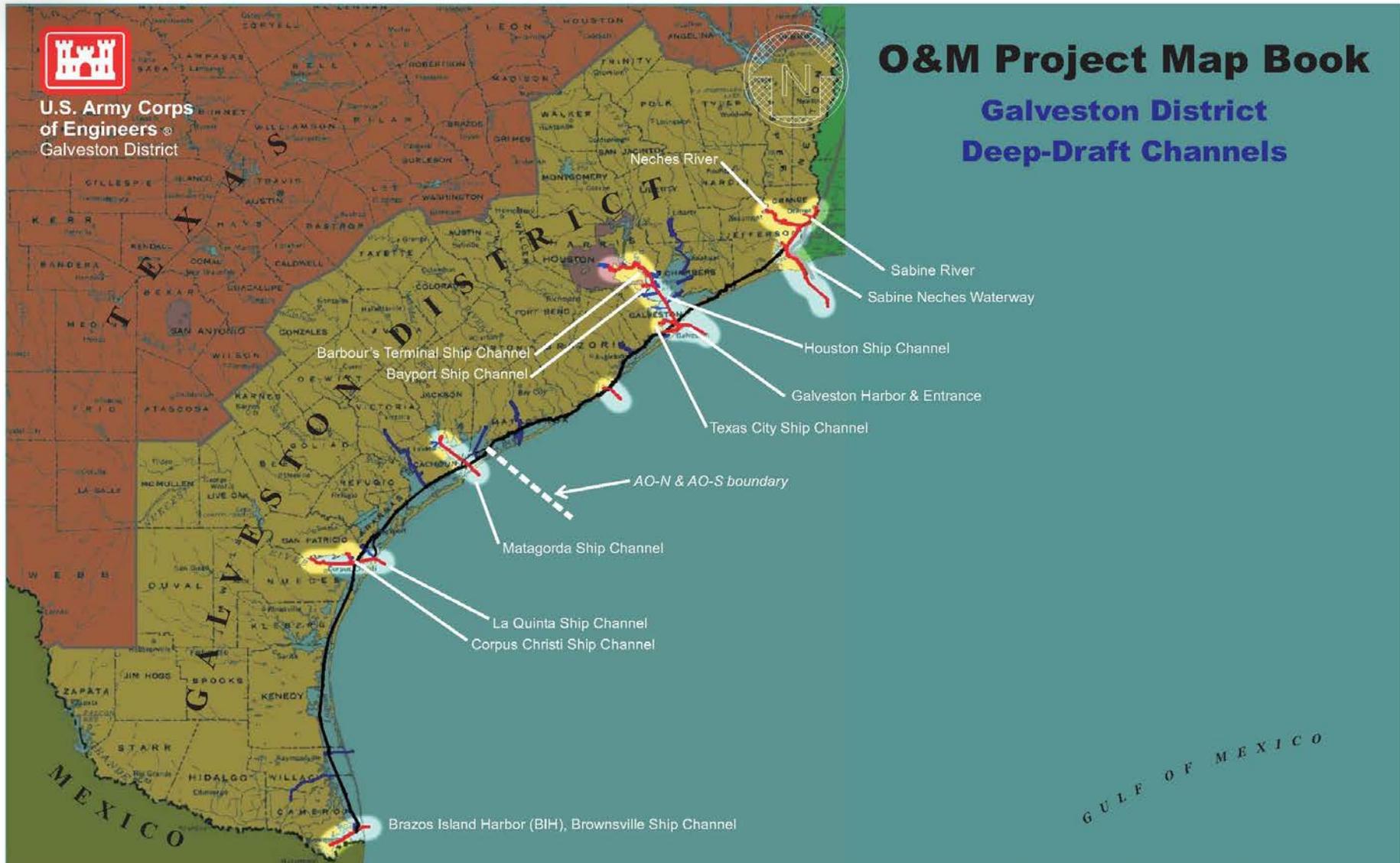
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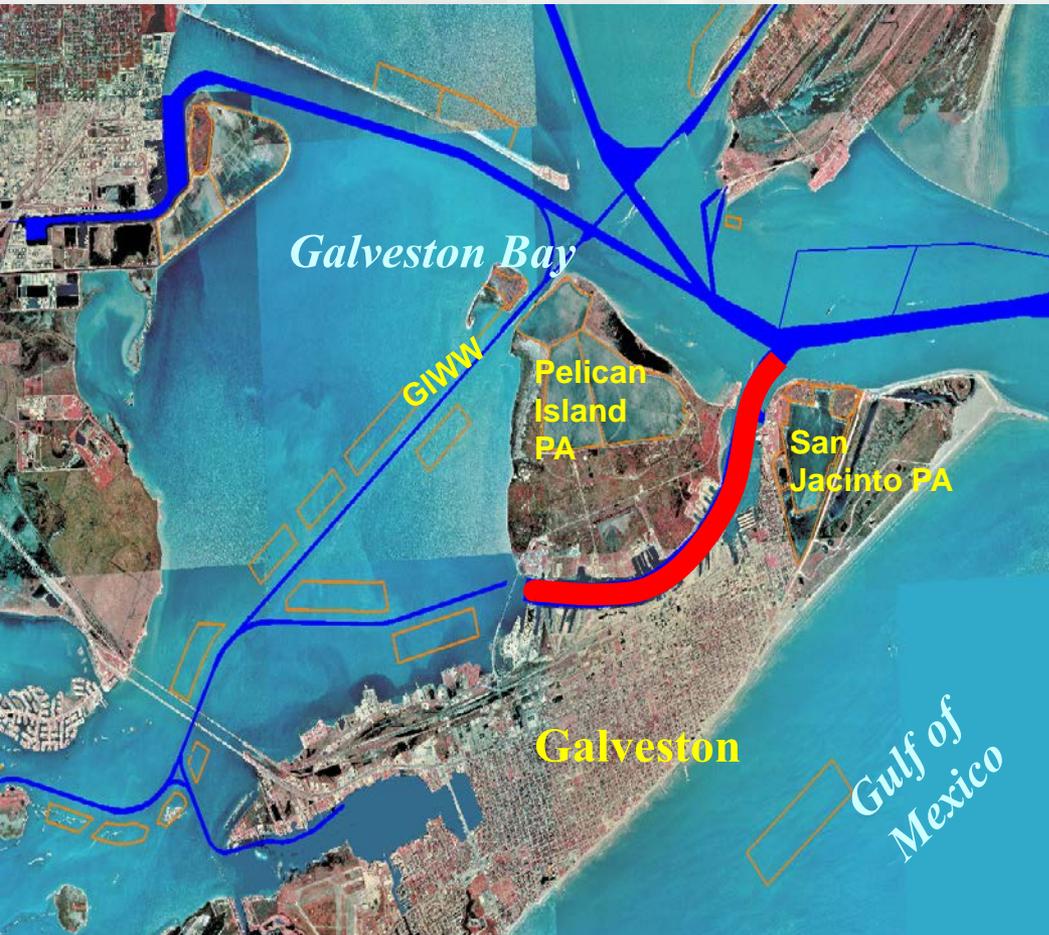


# DEEP DRAFT FY16 CONTRACT SCHEDULES





# GALVESTON HARBOR

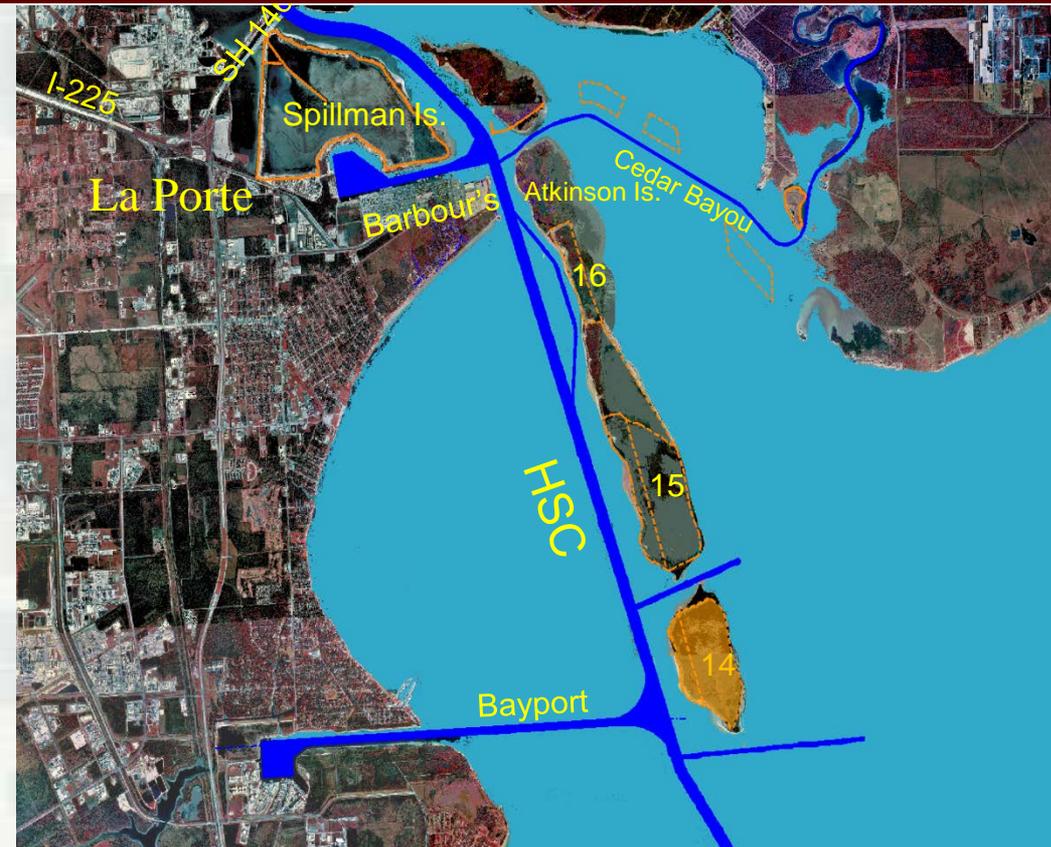


<b>Project:</b>	<b>Galveston Inner Harbor</b>
Dredging Depth:	41 - 46 ft. Required Depth
Dredging Width:	1000 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Silt
Placement Area:	Offshore
Distance to Place Area:	8 Miles Avg.
Type of Equipment:	Hopper Dredge
Env. Window:	NA
Reason for Window:	NA
Est. Start Date	April 25, 2016
Est. Completion Date	July 15, 2016





# HOUSTON SHIP CHANNEL PLACEMENT AREA NO. 14 DEWATERING



Project:	Houston Ship Channel Placement Area No. 14 Dewatering
Type of Work:	Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	
Placement Area:	PA 14
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/Earthmoving Equipment
Env. Window:	NA
Est. Start Date	April 1, 2016
Est. Completion Date	October 15, 2016

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# HOUSTON SHIP CHANNEL MORGAN'S POINT EXXON AND BARBOURS TERMINAL



<b>Project:</b>	<b>Houston Ship Channel Morgan's Point to Exxon &amp; Barboours Terminal</b>
<b>Dredging Depth:</b>	49 ft. (HSC) & 45 ft. (Barboours) Required Depth
<b>Dredging Width:</b>	1222 - 300 ft.
<b>Dredging Length:</b>	Varies
<b>Dredging Quantity:</b>	2,500,000 cubic yards
<b>Material Type:</b>	Silt
<b>Placement Area:</b>	Spilman
<b>Distance to Place Area:</b>	1 Mile Avg.
<b>Type of Equipment:</b>	Pipeline
<b>Env. Window:</b>	NA
<b>Est. Start Date:</b>	May 23, 2016
<b>Est. Completion Date:</b>	December 9, 2016

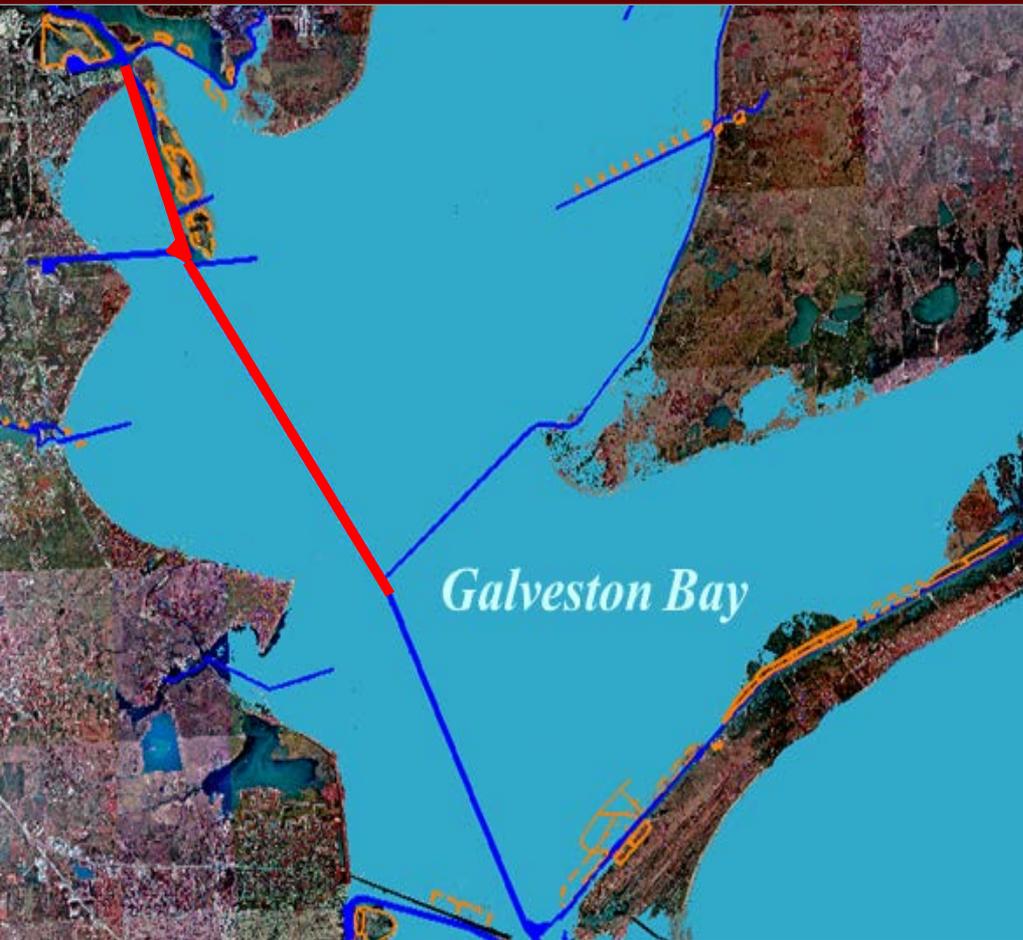
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# HOUSTON SHIP CHANNEL BAYPORT FLARE AND RED FISH REEF TO MORGAN



<b>Project:</b>	<b>Houston Ship Channel Bayport Flare and Redfish Reef to Morgan Point (include Bayport Bend E.)</b>
Dredging Depth:	47 ft. Required Depth
Dredging Width:	530 ft.
Dredging Length:	Varies
Dredging Quantity:	2,000,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Marsh Cells 7/8/9 and Mid-Bay PA
Dist. to Place Area:	1-4 miles
Type of Equipment:	Pipeline
Env. Window:	Nesting bird window at Mid-Bay PA (avoid impacts to nesting birds March 1 <sup>st</sup> to August 31st)
Reason for Window:	Migratory Bird Treaty Act
Est. Start Date:	September 23, 2016
Est. Completion Date:	October 23, 2016



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# HOUSTON SHIP CHANNEL ROSA ALLEN CONTAINMENT DIKE RAISE

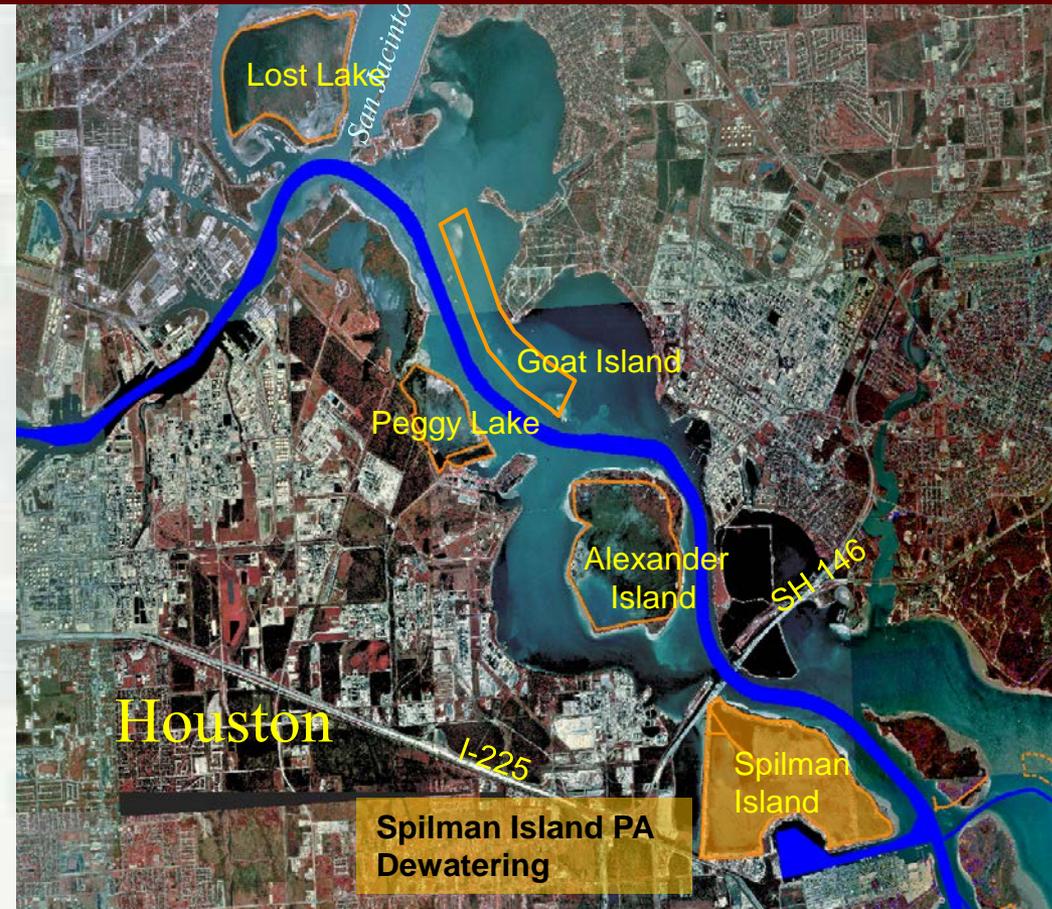


<b>Project:</b>	<b>Houston Ship Channel Rosa Allen Containment Dike Raise</b>
Type of Work:	Levee Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Rosa Allen PA
Contractor:	NA
Type of Equipment:	Dragline/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date	November 12, 2016
Est. Completion Date	September 8, 2017





# HOUSTON SHIP CHANNEL SPILMAN ISLAND PA DEWATERING

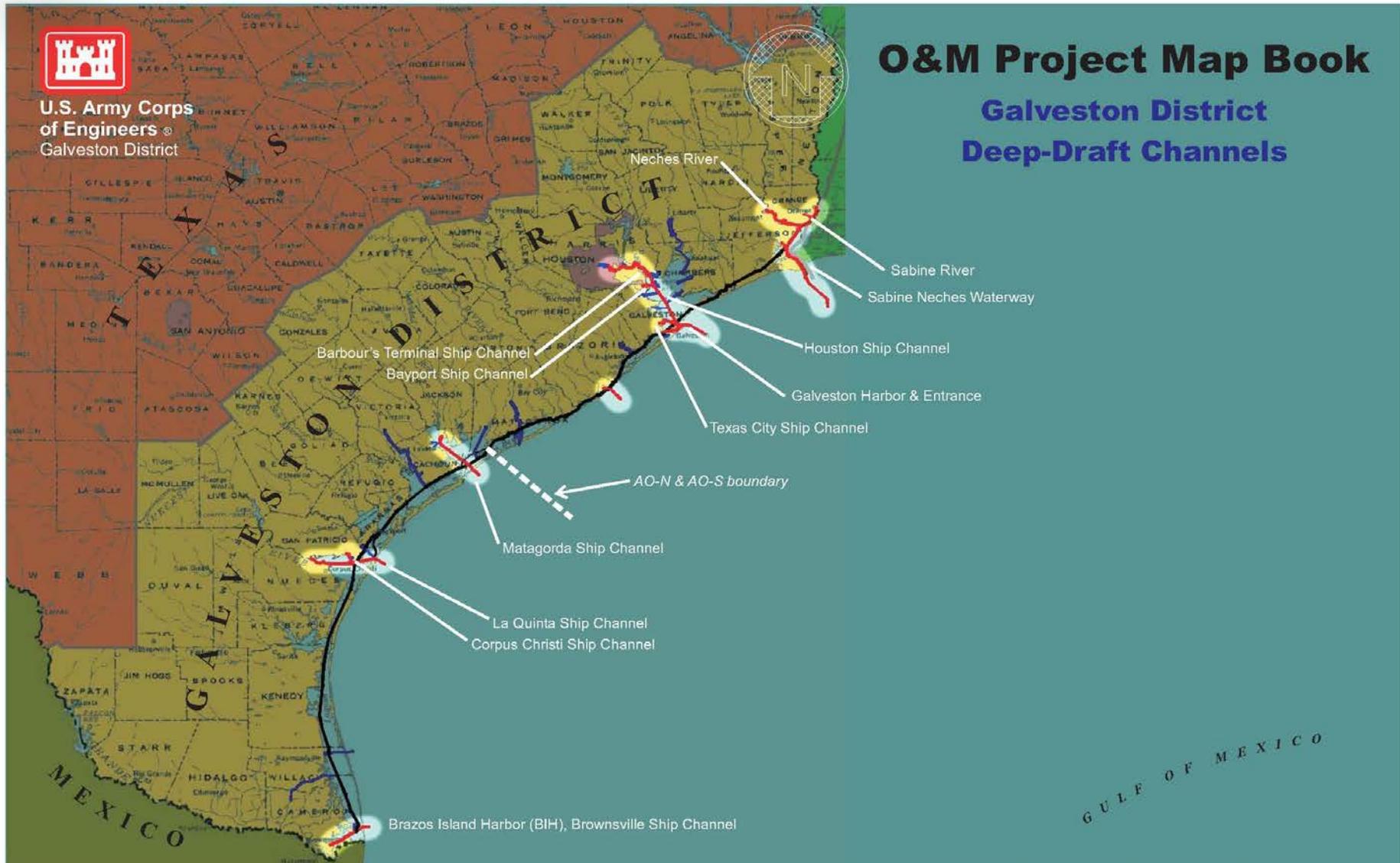


<b>Project:</b>	<b>Houston Ship Channel Spilman Island PA Dewatering</b>
Type of Work:	Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Spilman Island
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	TBD
Est. Completion Date:	TBD





# DEEP DRAFT FY16 CONTRACT SCHEDULES





# FREEPORT HARBOR PLACEMENT AREA #1 CONTAINMENT DIKE RAISE



<b>Project:</b>	<b>Freeport Harbor, TX Placement Area #1 Containment Dike Raise</b>
Type of Work:	Levee Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Sand/Silt
Placement Area (PA):	PA 1
Distance to PA:	NA
Type of Equipment:	Dragline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	April 15, 2016
Est. Completion Date:	January 20, 2017

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# FREEPORT HARBOR ENTRANCE CHANNEL

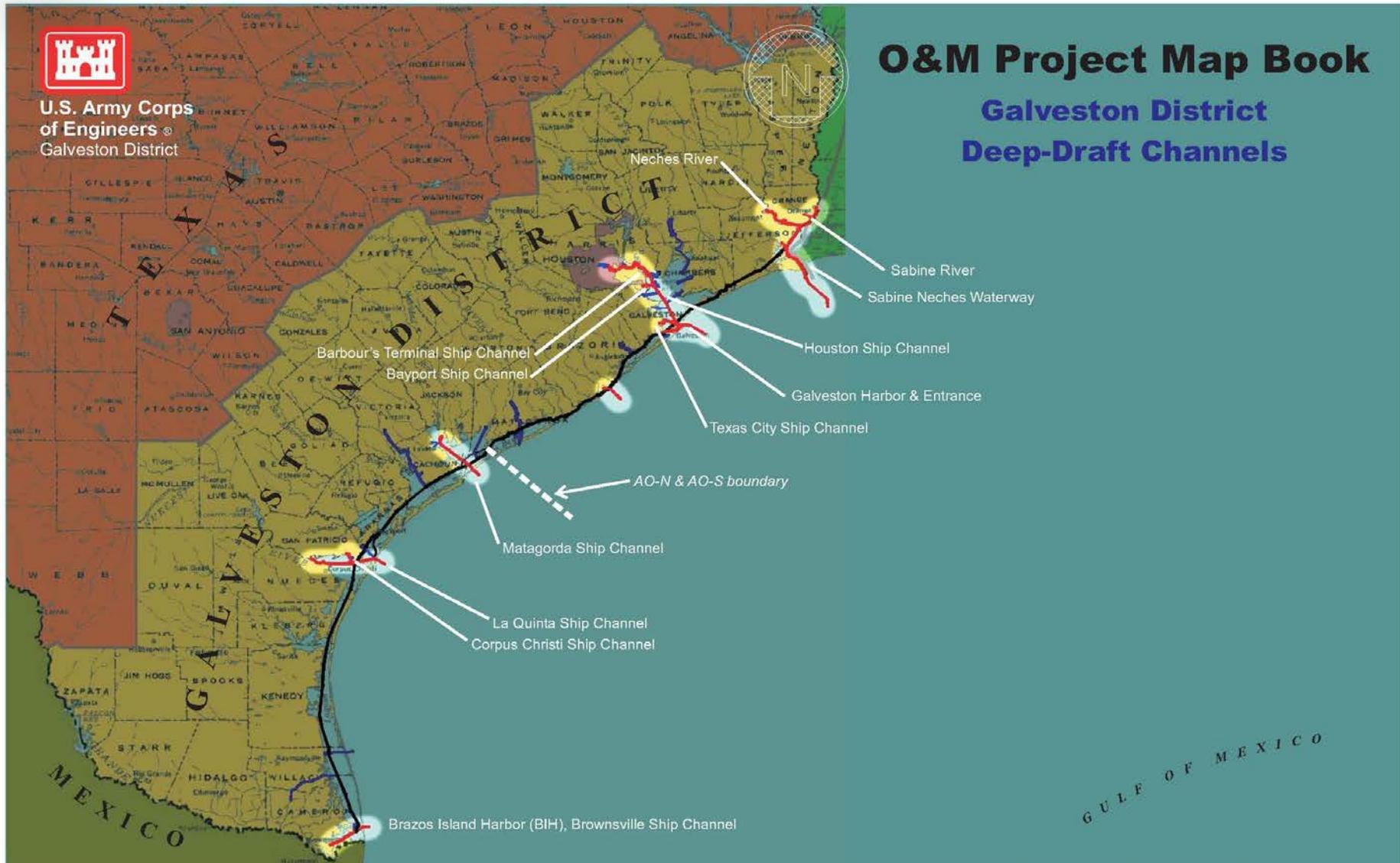


Project:	Freeport Harbor Entrance Channel
Dredging Depth:	49 - 47 ft. Required Depth
Dredging Width:	600 ft.
Dredging Length:	Varies
Dredging Quantity:	2,600,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Offshore
Distance to Place Area:	2.5 Mile Avg.
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	September 5, 2016
Est. Completion Date:	November 19, 2016



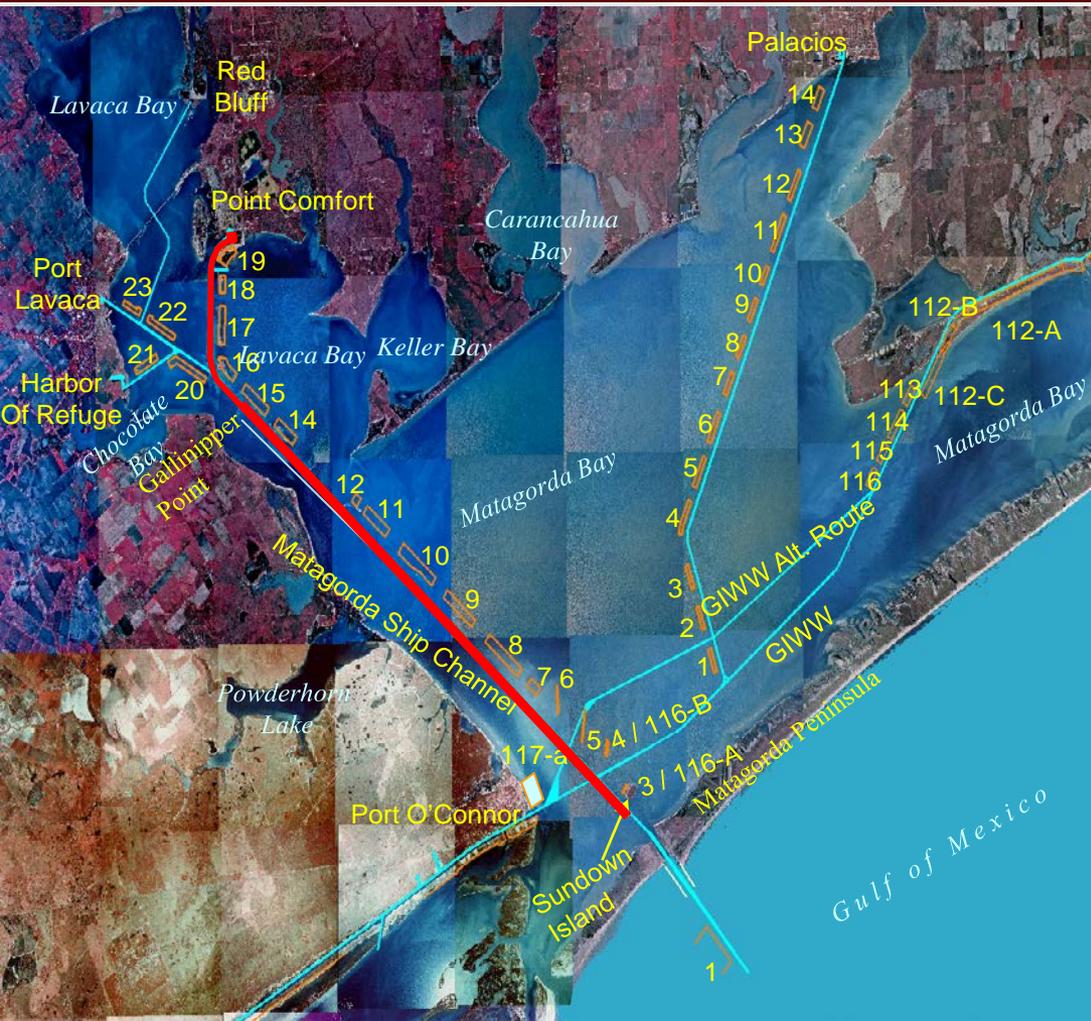


# DEEP DRAFT FY16 CONTRACT SCHEDULES





# MATAGORDA SHIP CHANNEL MATAGORDA PEN. TO POINT COMFORT



<b>Project:</b>	<b>Matagorda Ship Channel Matagorda Pen. to Point Comfort</b>
<b>Dredging Depth:</b>	38 ft. Required Depth
<b>Dredging Width:</b>	200 ft.
<b>Dredging Length:</b>	Varies
<b>Dredging Quantity:</b>	1,800,000 cubic yards
<b>Material Type:</b>	Sand/Silt
<b>Placement Area:</b>	Open Water/Semi Confined
<b>Distance to Place Area:</b>	1 Mile Avg.
<b>Type of Equipment:</b>	Pipeline Dredge
<b>Env. Window:</b>	March 1 thru August 31
<b>Reason for Window:</b>	Nesting birds
<b>Est. Start Date:</b>	August 30, 2016
<b>Est. Completion Date:</b>	April 2, 2017

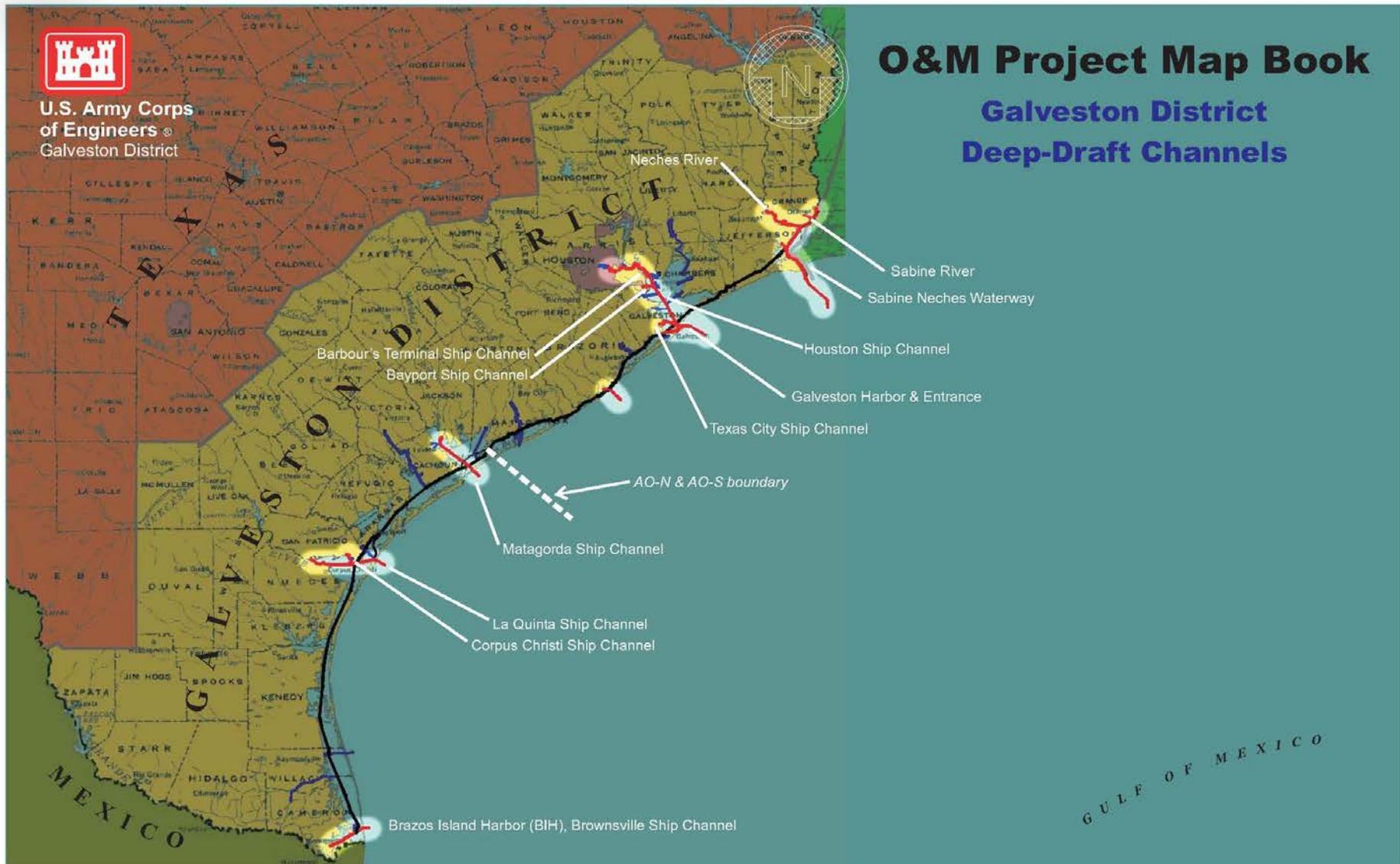
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# DEEP DRAFT FY16 CONTRACT SCHEDULES





# CORPUS CHRISTI ENTRANCE



<b>Project:</b>	<b>Corpus Christi Entrance Channel</b>
Dredging Depth:	49 - 47 ft. Required Depth
Dredging Width:	700 - 600 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Silt/Sand
Placement Area:	Offshore
Distance to Placement Area:	2.5 Mile Avg.
Type of Equipment:	Hopper
Est. Start Date:	May 15, 2016
Est. Completion Date:	August 11, 2016





# CORPUS CHRISTI SHIP CHANNEL INNER BASIN TO VIOLA T.B. & LAQUINTA CHANNEL



<b>Project:</b>	Corpus Christi Ship Channel Inner Basin to Viola Turning Basin / LaQuinta Channel
<b>Dredging Depth:</b>	47 – 51 ft. Required Depth
<b>Dredging Width:</b>	600 – 1559 ft.
<b>Dredging Length:</b>	Varies
<b>Dredging Quantity:</b>	1,800,000 cubic yards
<b>Material Type:</b>	Silt / Sand
<b>Placement Area:</b>	Open Water and Upland
<b>Distance to Placement Area:</b>	1-4 Miles
<b>Type of Equipment:</b>	Pipeline Dredge
<b>Env. Window (Avoidance Period)</b>	March - November
<b>Reason for Window:</b>	Turtles and Nesting Birds
<b>Start Date:</b>	September 2, 2016
<b>Est. Completion Date:</b>	January 25, 2017

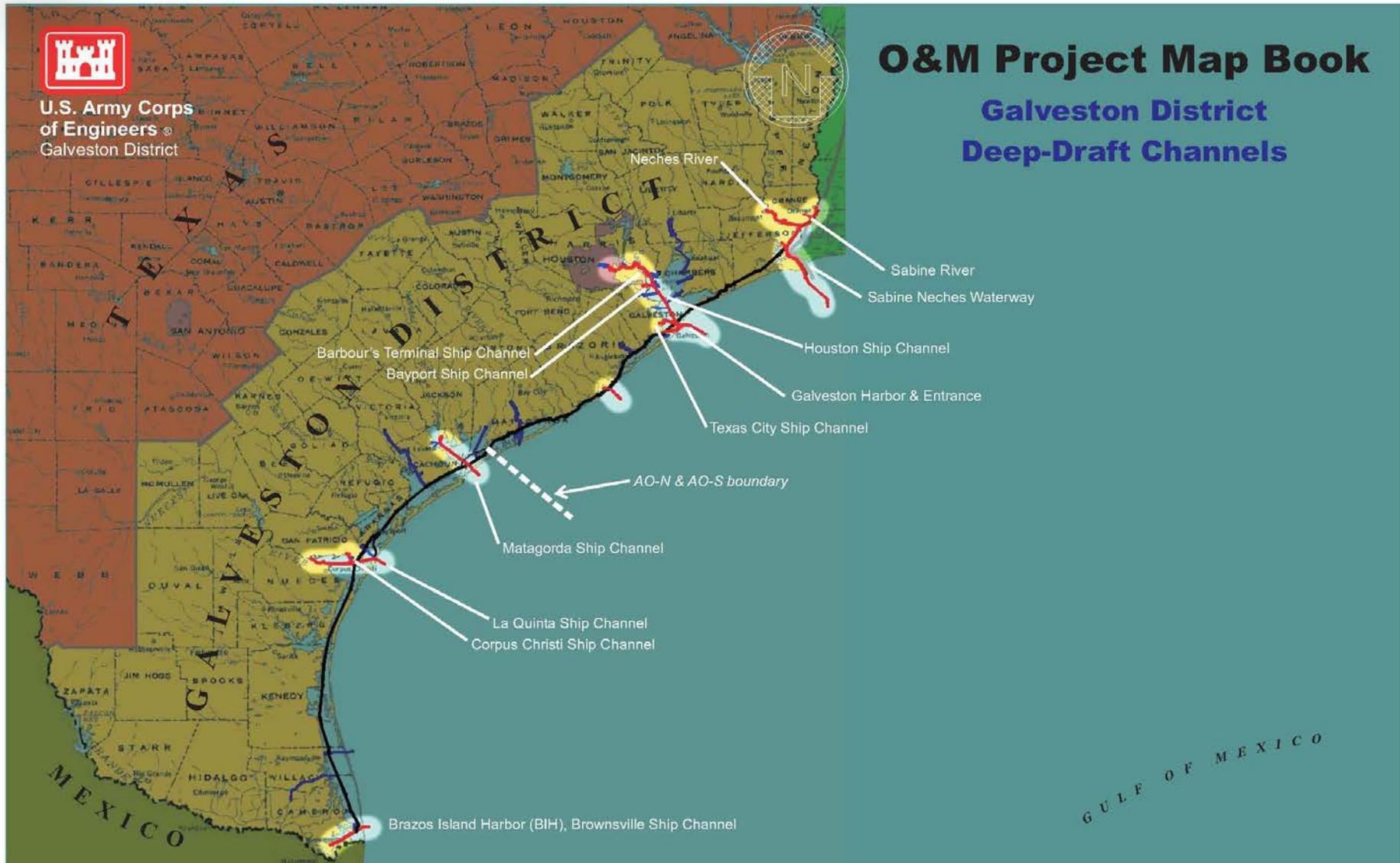
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# DEEP DRAFT FY16 CONTRACT SCHEDULES





# BRAZOS ISLAND HARBOR JETTY CHANNEL



<b>Project:</b>	<b>Brazos Island Harbor Brownsville Jetty Channel</b>
Dredging Depth:	46 ft. Required Depth
Dredging Width:	300 - 400 ft.
Dredging Length:	Varies
Dredging Quantity:	350,000 cubic yards
Material Type:	Sand
Placement Area:	Beach/BU
Distance to Place Area:	2 Miles Avg.
Type of Equipment:	Hopper/Pipeline
Env. Window:	1 Oct- 14Mar
Reason for Window:	Turtle/Tourism
Est. Start Date	October 5, 2016
Est. Completion Date	January 13, 2017

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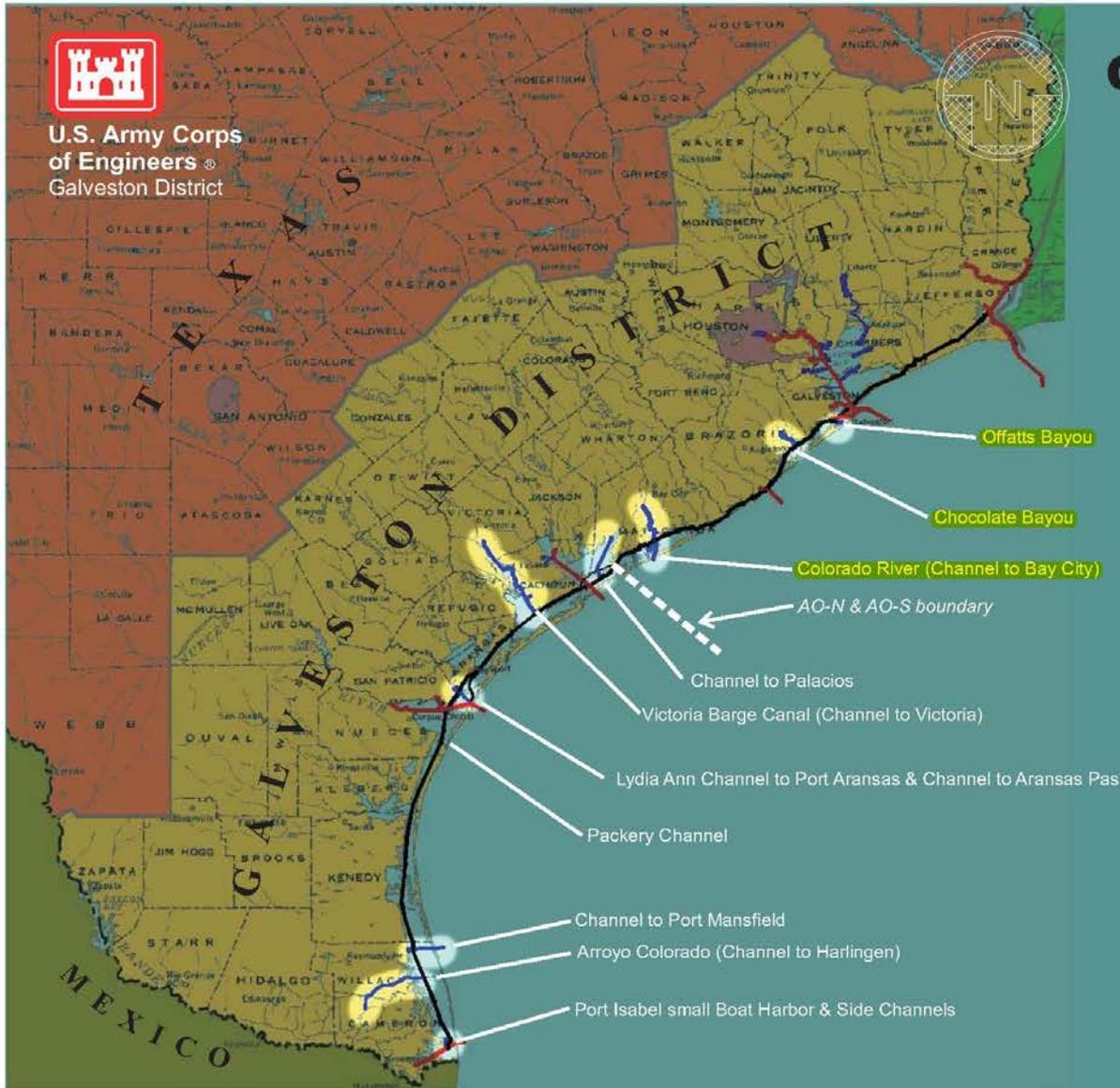
# SHALLOW DRAFT FY16 CONTRACT SCHEDULES



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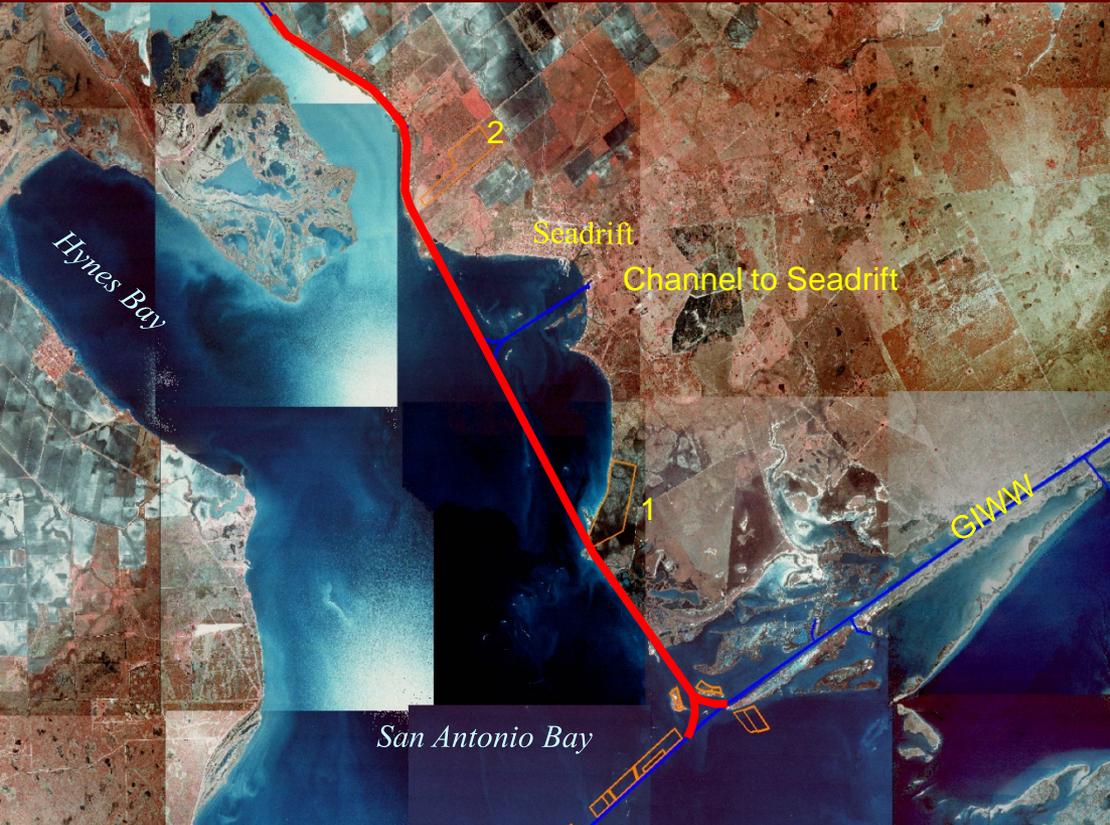
## O&M Project Map Book GIWW - Galveston District GIWW Tributaries



GULF OF MEXICO



# CHANNEL TO VICTORIA



<b>Project:</b>	<b>GIWW, Ch to Victoria Maintenance Dredging Lower &amp; Middle Reach</b>
Dredging Depth:	14-foot (Req. Depth)
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	600,000 cubic yards
Material Type:	Silt/Sand
Placement Area (PA):	Upland Confined
Distance to PA:	2.0 Mile (avg.)
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	May 3, 2016
Est. Completion Date:	November 2, 2016





# CHANNEL TO VICTORIA



<b>Project:</b>	<b>GIWW, Ch to Victoria Maintenance Dredging Lower &amp; Middle Reach</b>
Dredging Depth:	14-foot (Req. Depth)
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	600,000 cubic yards
Material Type:	Silt/Sand
Placement Area (PA):	Upland Confined
Distance to PA:	2.0 Mile (avg.)
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date:	May 3, 2016
Est. Completion Date:	November 2, 2016



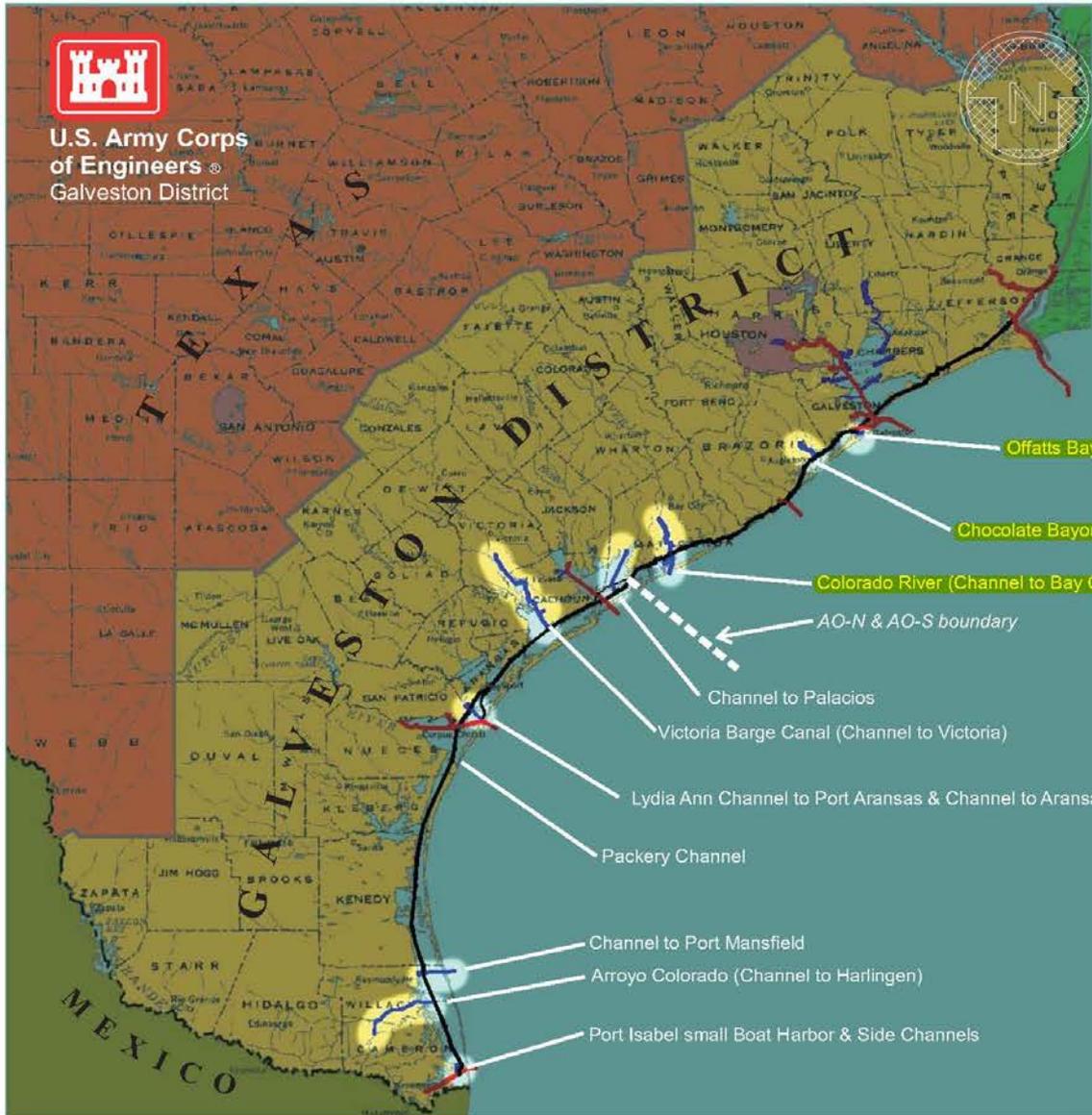
# SHALLOW DRAFT FY16 CONTRACT SCHEDULES



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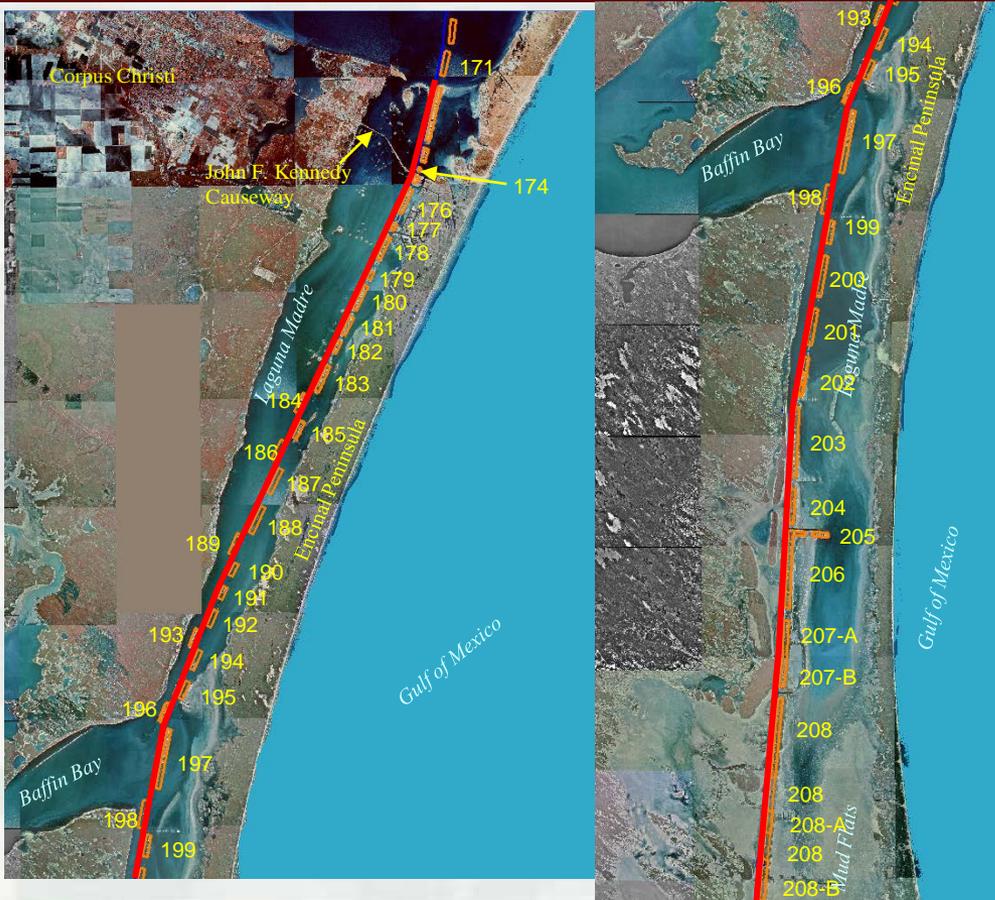
## O&M Project Map Book GIWW - Galveston District GIWW Tributaries



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# GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL

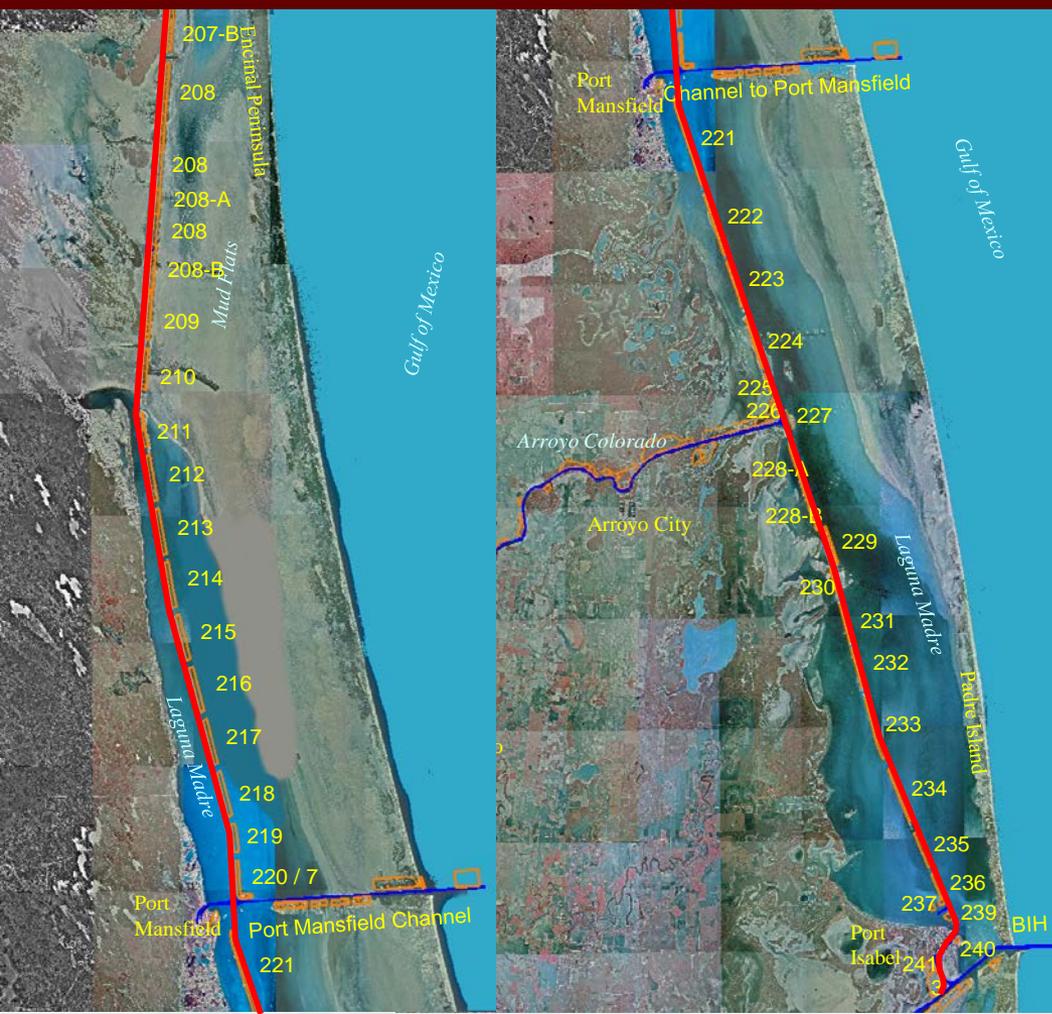


<b>Project:</b>	<b>Gulf Intracoastal Waterway Corpus Christi to Port Isabel</b>
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Nov. - 28 Feb.
Reason for Window:	Seagrass
Est. Start Date	November 6, 2015
Est. Completion Date	February 29, 2016





# GULF INTRACOASTAL WATERWAY CORPUS CHRISTI TO PORT ISABEL



<b>Project:</b>	<b>Gulf Intracoastal Waterway Corpus Christi to Port Isabel</b>
Dredging Depth:	14 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	3 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	1 Nov. – 28 Feb.
Reason for Window:	Seagrass
Est. Start Date	November 6, 2015
Est. Completion Date	February 29, 2016





# GULF INTRACOASTAL WATERWAY GALVESTON CAUSEWAY TO BASTROP BAYOU



<b>Project:</b>	<b>Gulf Intracoastal Waterway Galveston Causeway to Bastrop Bayou</b>
Dredging Depth:	12 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	1,000,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined
Distance to Placement Area:	1 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Est. Start Date	November 15, 2015
Est. Completion Date	May 31, 2016

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# GULF INTRACOASTAL WATERWAY GALVESTON CAUSEWAY DEBRIS REMOVAL



<b>Project:</b>	<b>Galveston Causeway Debris and Structure Removal</b>
<b>Type of Work:</b>	Mechanical Dredging, Underwater Demolition, Structure and Debris Removal
<b>Dredging Width:</b>	Varies
<b>Dredging Length:</b>	Varies
<b>Dredging Quantity:</b>	
<b>Material Type:</b>	Silt, Clay, timber, concrete steel, etc
<b>Placement Area:</b>	C&D Landfill
<b>Distance to Place Area:</b>	Varies
<b>Type of Equipment:</b>	Mechanical Dredge, Scows, screening barges
<b>Est. Start Date</b>	February 9, 2016
<b>Est. Completion Date</b>	August 8, 2016

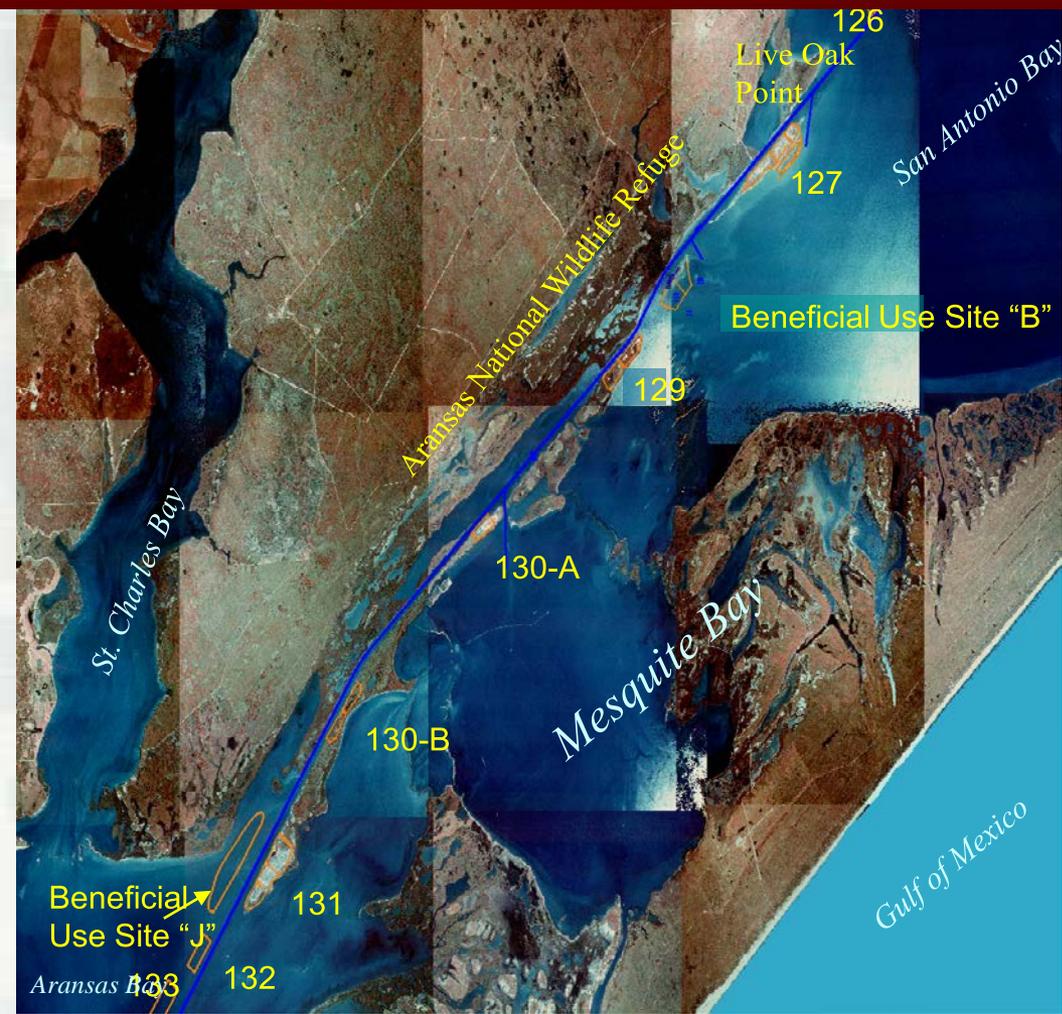
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# GULF INTRACOASTAL WATERWAY BENEFICIAL USE SITE B



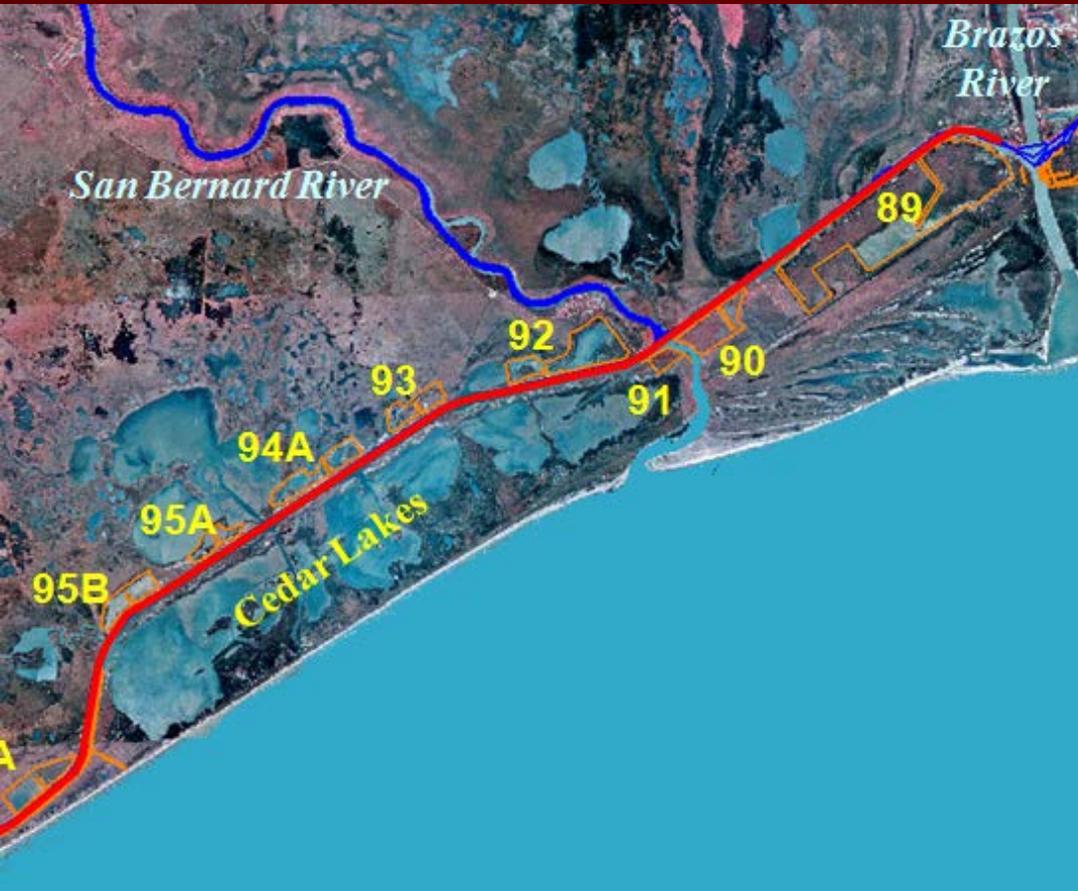
<b>Project:</b>	<b>Gulf Intracoastal Waterway Beneficial Use (BU) Site B Construction</b>
Type of Work:	BU Site
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	NA
Distance to Place Area:	NA
Type of Equipment:	Marine Construction
Env. Window:	NA
Reason for Window:	NA
Est. Start Date	April 13, 2016
Est. Completion Date	September 15, 2016





# GULF INTRACOASTAL WATERWAY SHORELINE STABILIZATION AND LEVEE RAISE – PA 93 AND PA 112-B

Sheet 1



<b>Project:</b>	Gulf Intracoastal Waterway- Shoreline Stabilization and Levee Raise-PA 93 & 112-B
<b>Type of Work:</b>	Shore Stabilization/ Levee Raise
<b>Dredging Width:</b>	NA
<b>Dredging Length:</b>	NA
<b>Dredging Quantity:</b>	NA
<b>Material Type:</b>	
<b>Placement Area:</b>	PA 93
<b>Distance to Place Area:</b>	NA
<b>Type of Equipment:</b>	Marine Construction Earthmoving Equipment
<b>Env. Window:</b>	NA
<b>Est. Start Date</b>	August 11, 2016
<b>Est. Completion Date</b>	February 7, 2017

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# GULF INTRACOASTAL WATERWAY SHORELINE STABILIZATION AND LEVEE RAISE – PA 93 AND PA 112-B

Cont'd...

Sheet 2



<b>Project:</b>	Gulf Intracoastal Waterway-Shoreline Stabilization and Levee Raise-PA 93 & 112-B
<b>Type of Work:</b>	Shore Stabilization/ Levee Raise
<b>Dredging Width:</b>	NA
<b>Dredging Length:</b>	NA
<b>Dredging Quantity:</b>	NA
<b>Material Type:</b>	
<b>Placement Area:</b>	PA 112-B
<b>Distance to Place Area:</b>	NA
<b>Type of Equipment:</b>	Marine Construction Earthmoving Equipment
<b>Env. Window:</b>	NA
<b>Est. Start Date</b>	August 11, 2016
<b>Est. Completion Date</b>	February 7, 2017





# GULF INTRACOASTAL WATERWAY ROLLOVER PASS TO GALVESTON CAUSEWAY



<b>Project:</b>	<b>Gulf Intracoastal Waterway Rollover to Causeway</b>
Dredging Depth:	16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	700,000 cubic yards
Material Type:	Fine Sand/Silt
Placement Area:	Upland/Open Water/BU
Distance to Place Area:	2.0 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	N/A
Est. Start Date	September 27, 2016
Est. Completion Date	January 25, 2017

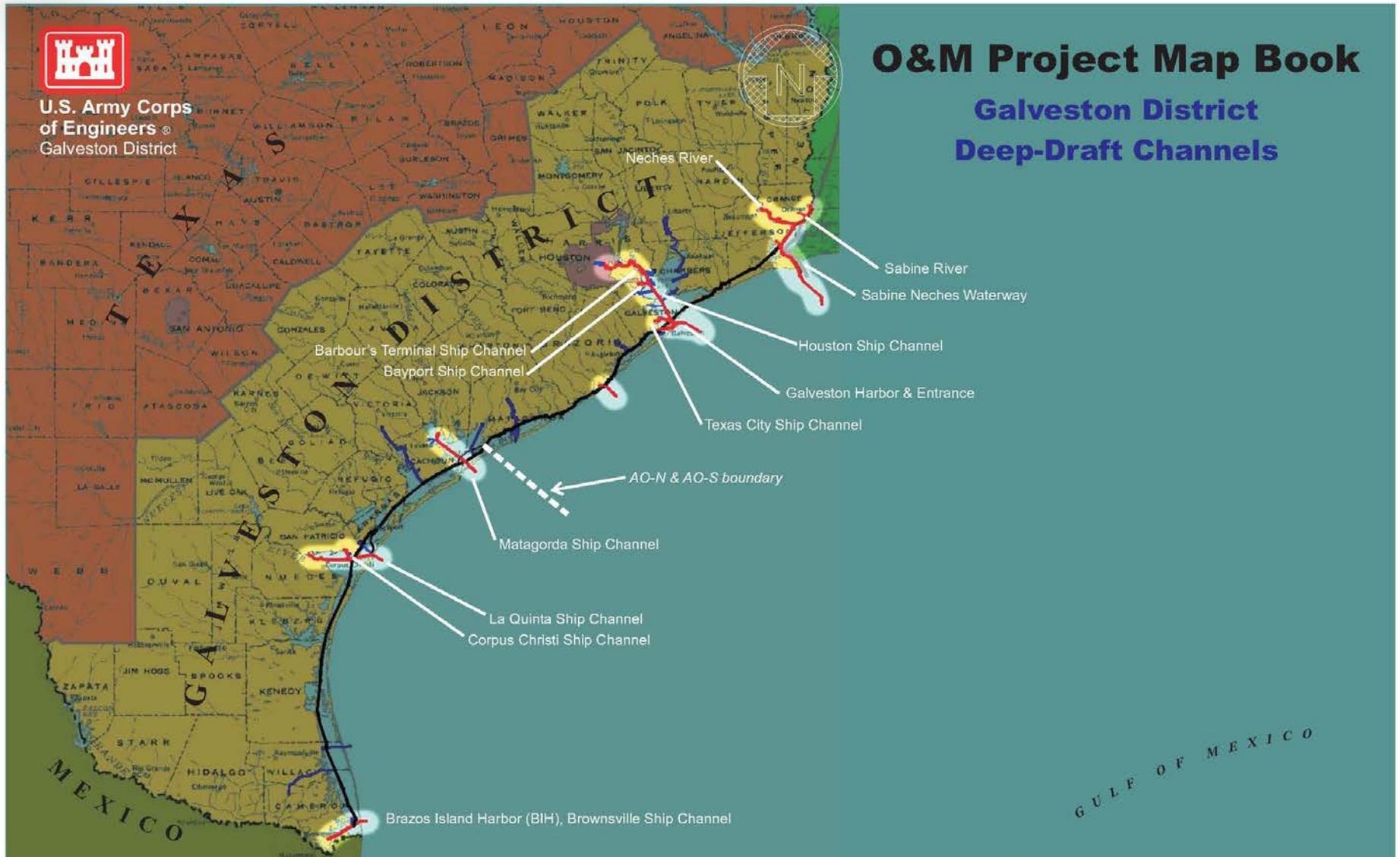
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# DEEP DRAFT FY17 PLANNED CONTRACT SCHEDULES





# SABINE-NECHES WATERWAY PORT ARTHUR CANAL, TURNING BASIN, JUNCTION AREA AND TAYLORS BAYOU



<b>Project:</b>	Sabine-Neches Waterway Port Arthur Canal, Turning Basin, Junction Area and Taylors Bayou
Dredging Depth:	42 ft. Required Depth
Dredging Width:	400 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	3,000,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	PA 8 and PA 9
Distance to Place Area:	1.5 - 2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	September 20, 2017

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# SABINE-NECHES WATERWAY OUTER BAR AND BANK CHANNEL

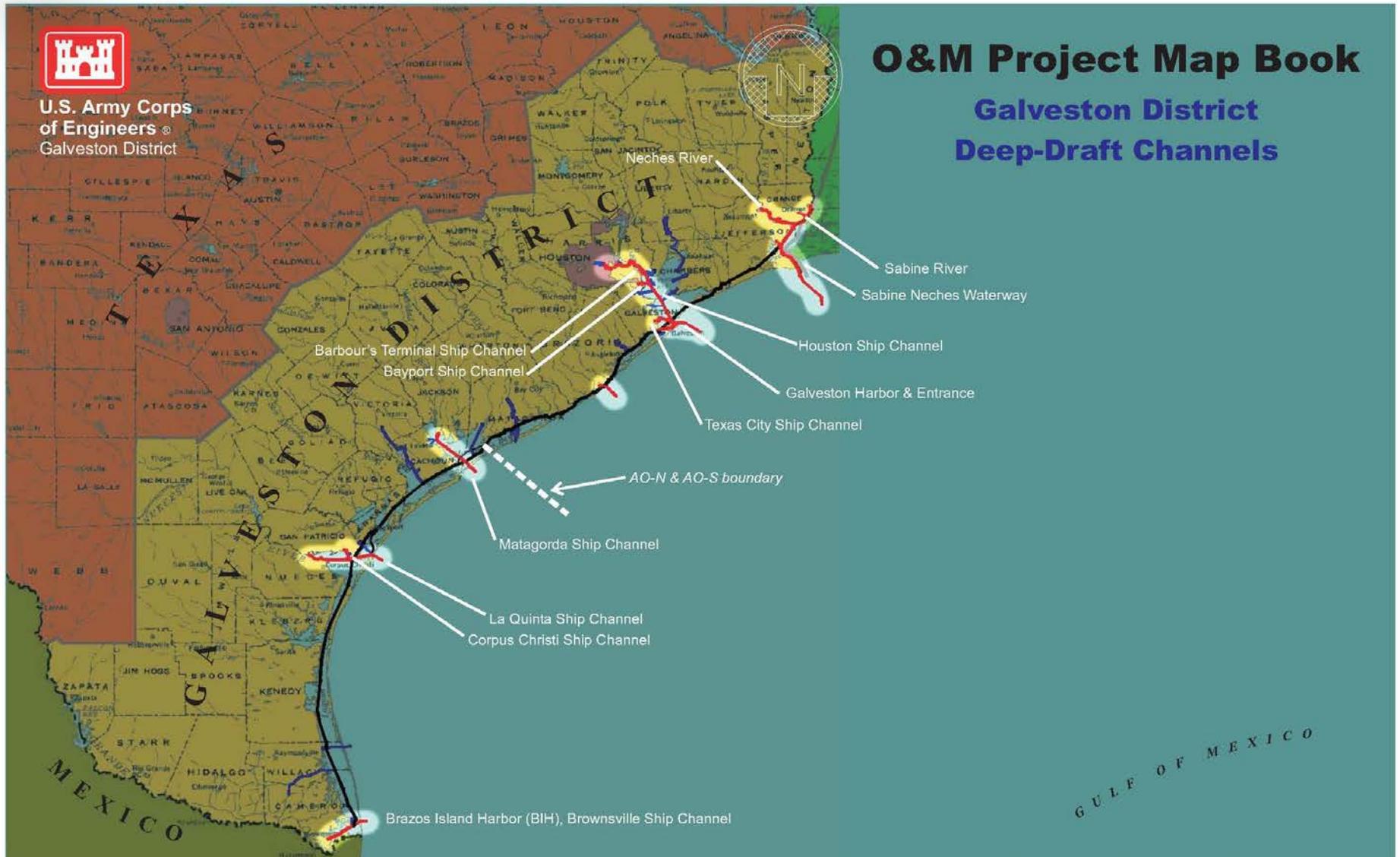


<b>Project:</b>	<b>Sabine Neches Waterway Outer Bar and Bank Channel</b>
Dredging Depth:	44 ft. Required Depth
Dredging Width:	800 ft.
Dredging Length:	Varies
Dredging Quantity:	2,500,000 cubic yards
Material Type:	Silt/Clay
Placement Area:	Offshore
Distance to Placement Area:	3 Mile Avg.
Type of Equipment:	Hopper
Env. Window	April 1 thru Nov. 30
Reason for Window:	Sea Turtles
Award:	September 22, 2017





# DEEP DRAFT FY17 PLANNED CONTRACT SCHEDULES





# TEXAS CITY CHANNEL MAIN CHANNEL AND TURNING BASIN



<b>Project:</b>	<b>Texas City Channel Main Channel and Turning Basin</b>
Dredging Depth:	48 ft. Required Depth
Dredging Width:	400 - 1200 ft.
Dredging Length:	Varies
Dredging Quantity:	1,500,000 cubic yards
Material Type:	Silt/Sand
Placement Areas:	TC Dike & SPPA's 3,4,5
Distance to Place Area:	1 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	NA
Reason for Window:	NA
Award:	October 15, 2016

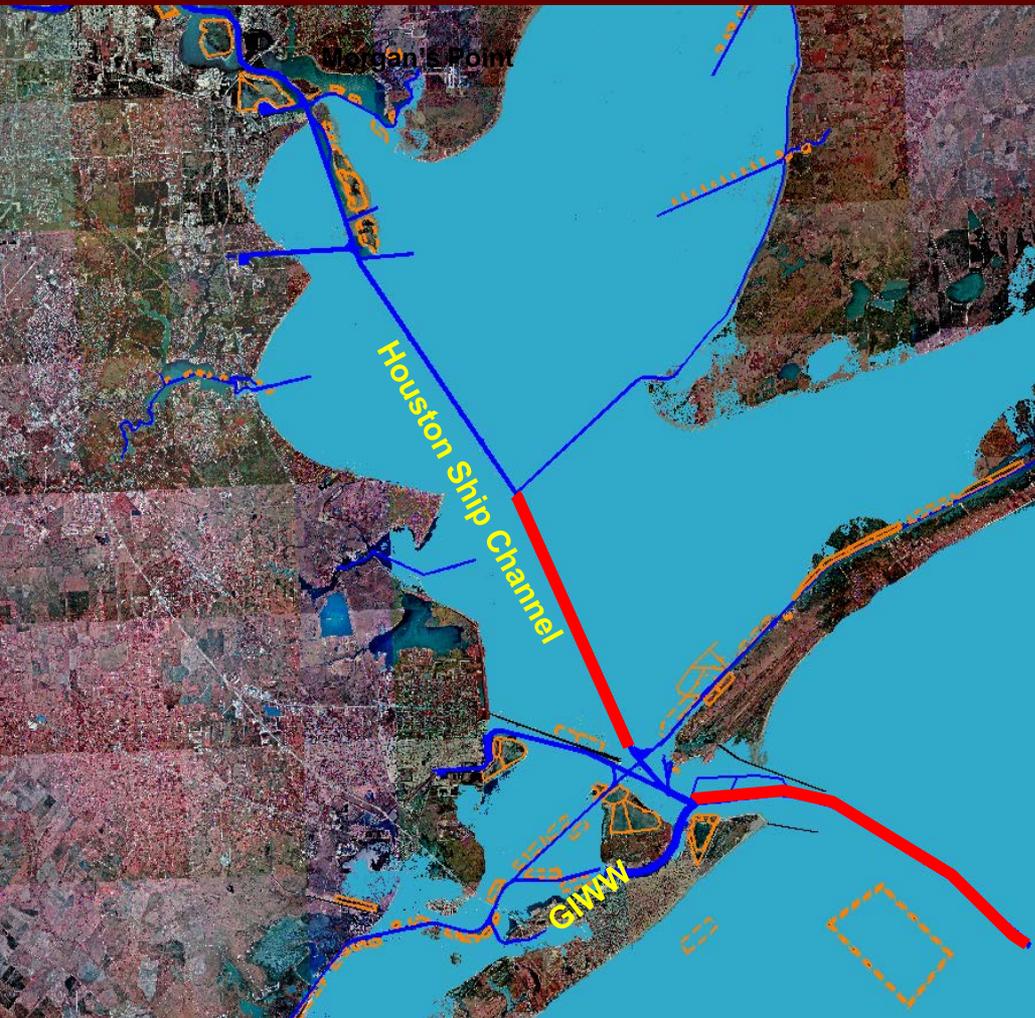
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# GALVESTON HARBOR-GALVESTON ENTRANCE CHANNEL AND HOUSTON SHIP CHANNEL- BOLIVAR ROADS TO RED FISH



<b>Project:</b>	<b>Galveston Harbor - Galveston Entrance Channel and Houston Ship Channel - Bolivar to Red Fish</b>
Dredging Depth:	47-49 ft. Required Depth
Dredging Width:	800-1000 ft.
Dredging Length:	Varies
Dredging Quantity:	2,500,000 cubic yards
Material Type:	Silt/Sand
Placement Area:	Offshore/BU
Distance to Place Area:	4 Mile Avg.
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Award:	February 15, 2017

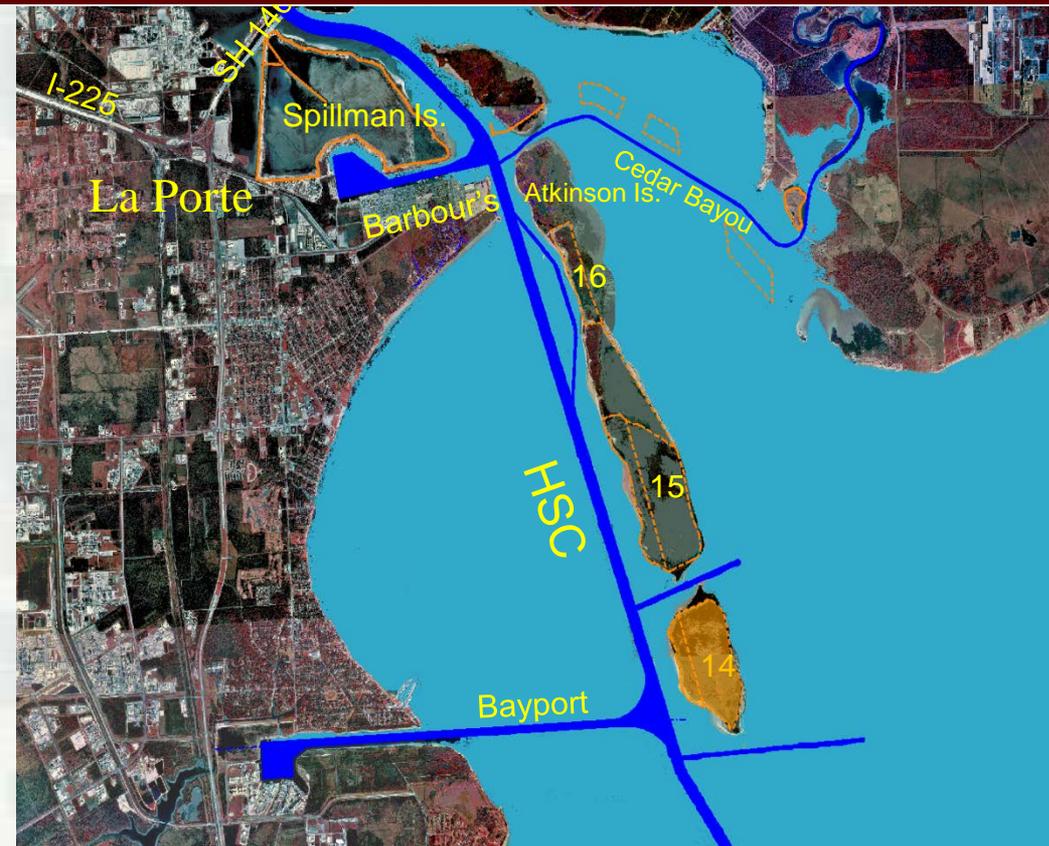
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# HOUSTON SHIP CHANNEL PLACEMENT AREA NO. 14 CONTAINMENT DIKE RAISE



Project:	Houston Ship Channel Placement Area No. 14 Containment Dike Raise
Type of Work:	Levee Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	
Placement Area:	PA 14
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Award:	October 15, 2016

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# HOUSTON SHIP CHANNEL PEGGY LAKE PA DEWATERING



<b>Project:</b>	<b>Houston Ship Channel Peggy Lake PA Dewatering</b>
Type of Work:	Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	NA
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	NA
Reason for Window:	NA
Award:	November 15, 2016





# HOUSTON SHIP CHANNEL – HOUSE TRACT AND CLINTON PA CONTAINMENT DIKE RAISE

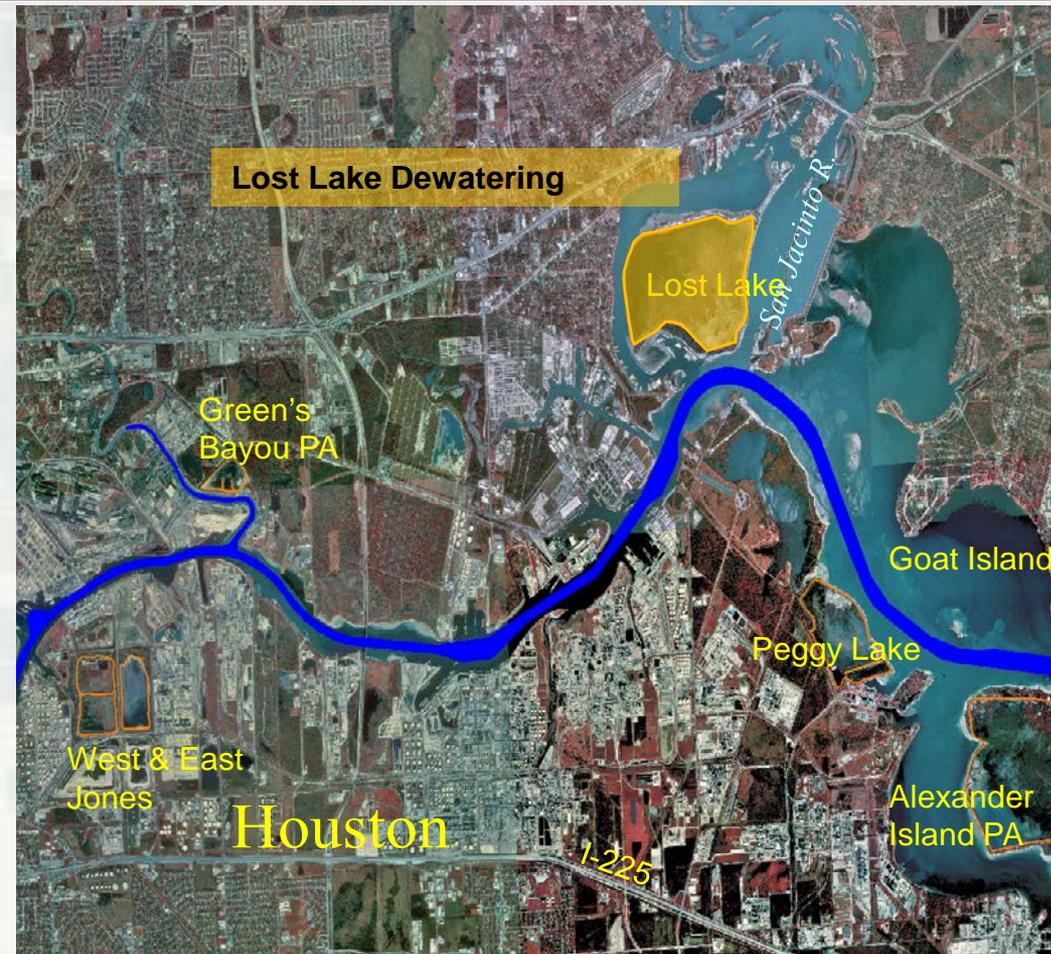


<b>Project:</b>	<b>Houston Ship Channel House Tract &amp; Clinton Containment Dike Raise</b>
Type of Work:	Levee Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	House Tract & Clinton
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Award:	February 15, 2017





# HOUSTON SHIP CHANNEL LOST LAKE PA DEWATERING



<b>Project:</b>	<b>Houston Ship Channel Lost Lake PA Dewatering</b>
Type of Work:	Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	NA
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	NA
Reason for Window:	NA
Award:	February 15, 2017

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# HOUSTON SHIP CHANNEL – SPILMAN ISLAND PA CONTAINMENT DIKE RAISE

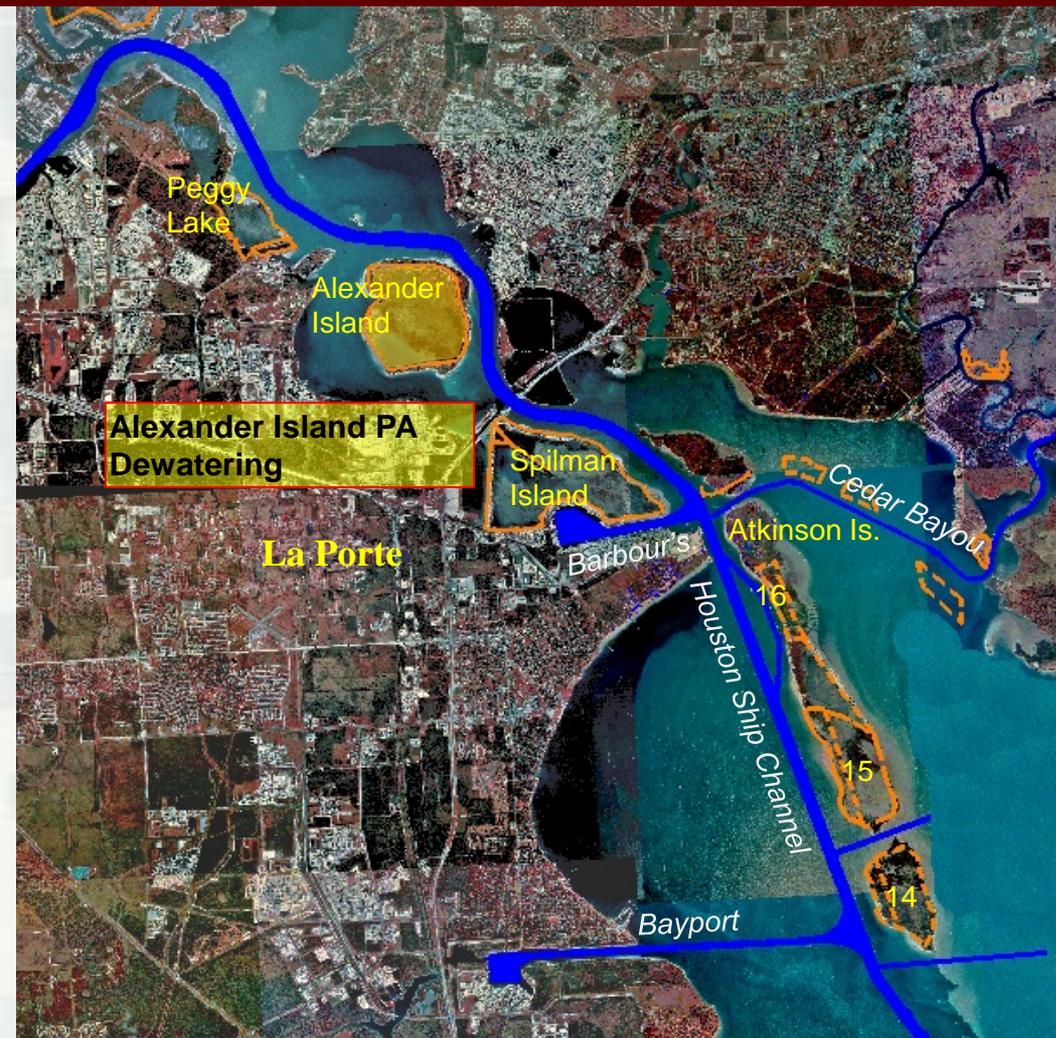


<b>Project:</b>	<b>Houston Ship Channel Spilman Island PA Containment Dike Raise</b>
Type of Work:	Levee Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Spilman Island
Distance to Place Area:	NA
Type of Equipment:	Dragline/Earthmoving equipment
Env. Window:	NA
Reason for Window:	NA
Award:	March 15, 2017





# HOUSTON SHIP CHANNEL ALEXANDER ISLAND PA DEWATERING



<b>Project:</b>	<b>Houston Ship Channel Alexander Island Dewatering</b>
Type of Work:	Dewatering
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	Alexander Island PA
Distance to Place Area:	NA
Type of Equipment:	Marsh Buggy/ Excavation Equipment
Env. Window:	NA
Reason for Window:	NA
Award:	August 15, 2017

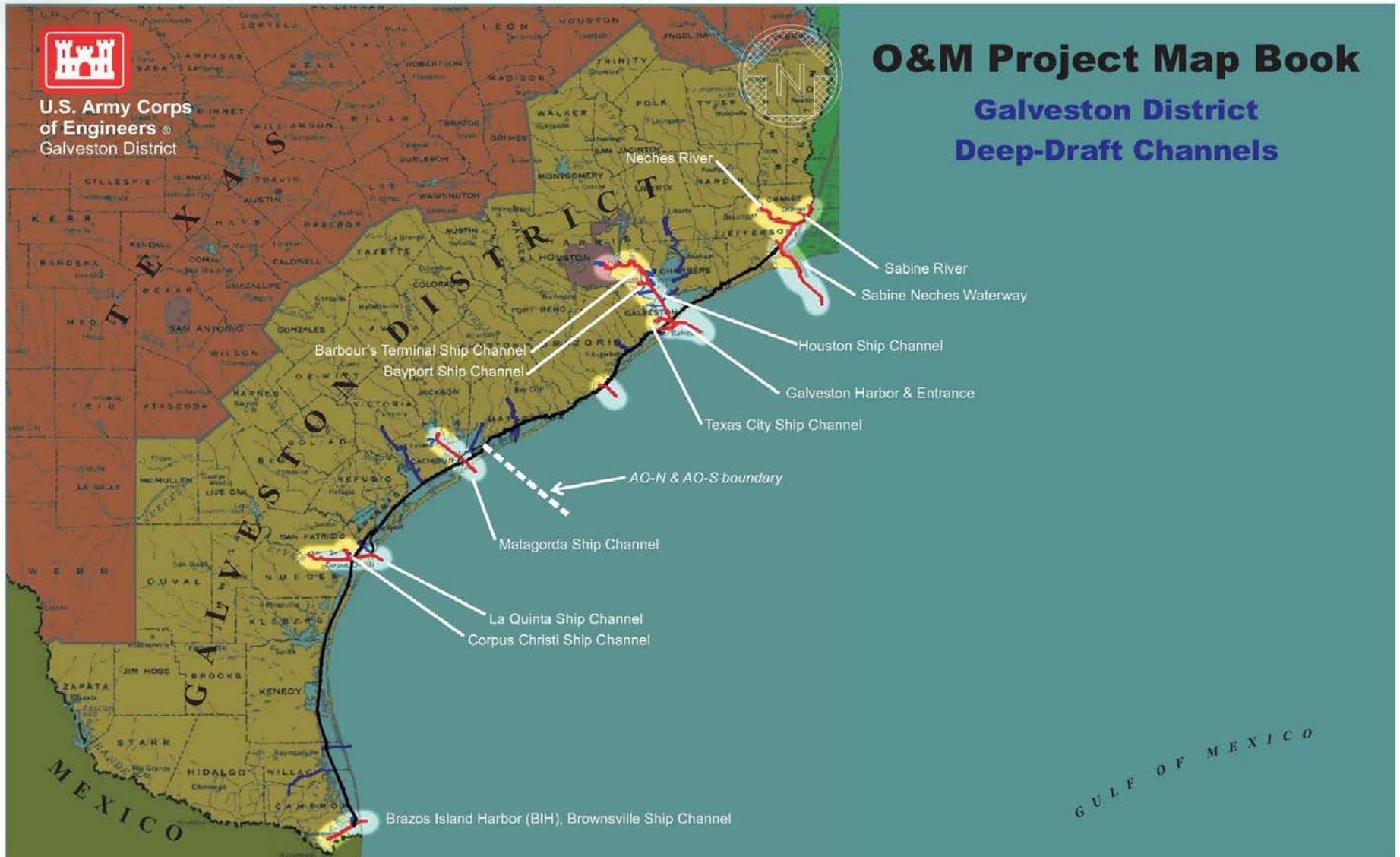
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# DEEP DRAFT FY17 PLANNED CONTRACT SCHEDULES





# FREEPORT HARBOR ENTRANCE CHANNEL



Project:	Freeport Harbor Entrance Channel
Dredging Depth:	49 - 47 ft. Required Depth
Dredging Width:	400 ft.
Dredging Length:	Varies
Dredging Quantity:	2,500,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Offshore
Distance to Place Area:	2.5 Mile Avg.
Type of Equipment:	Hopper
Env. Window:	NA
Reason for Window:	NA
Award:	August 15, 2017

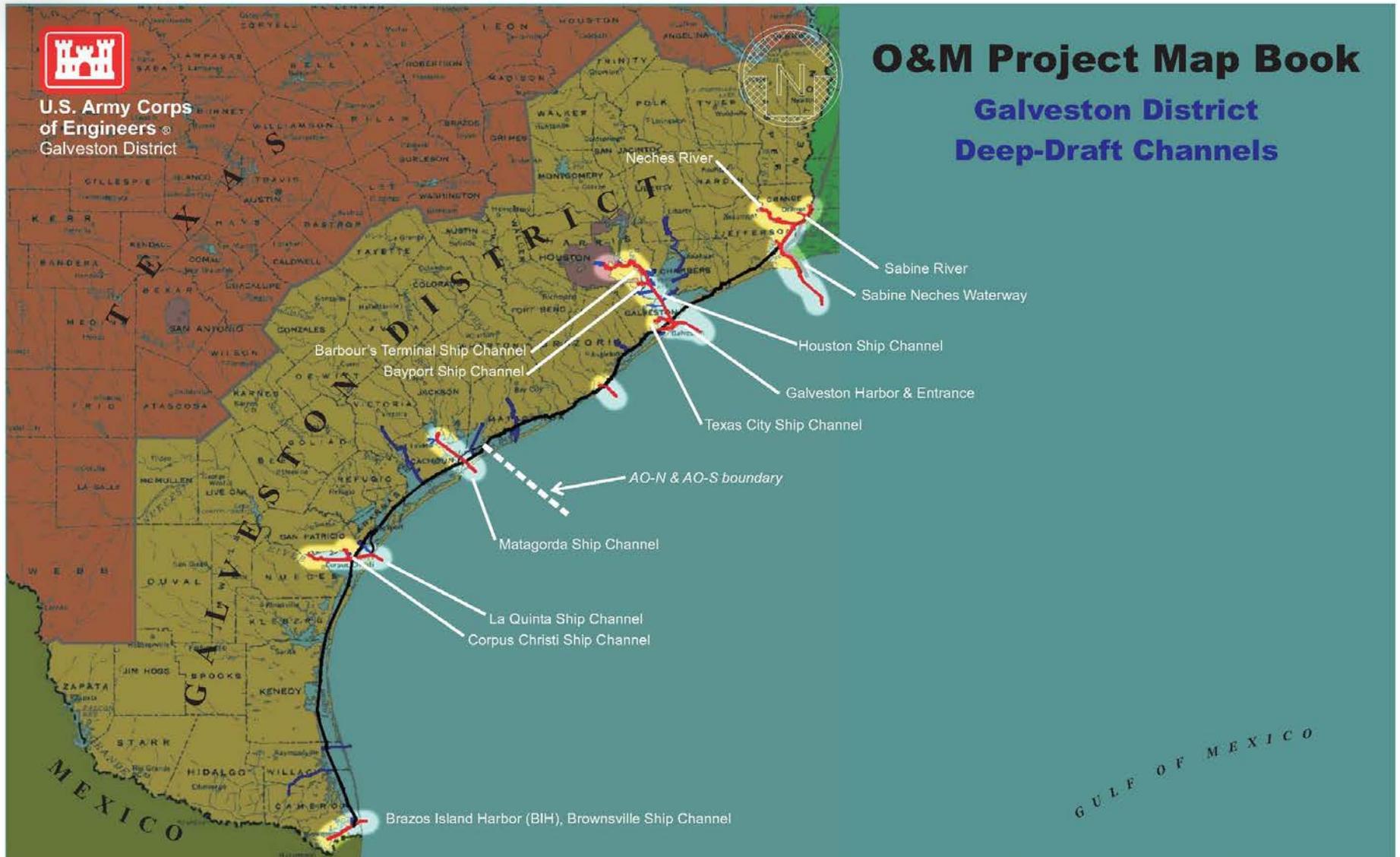
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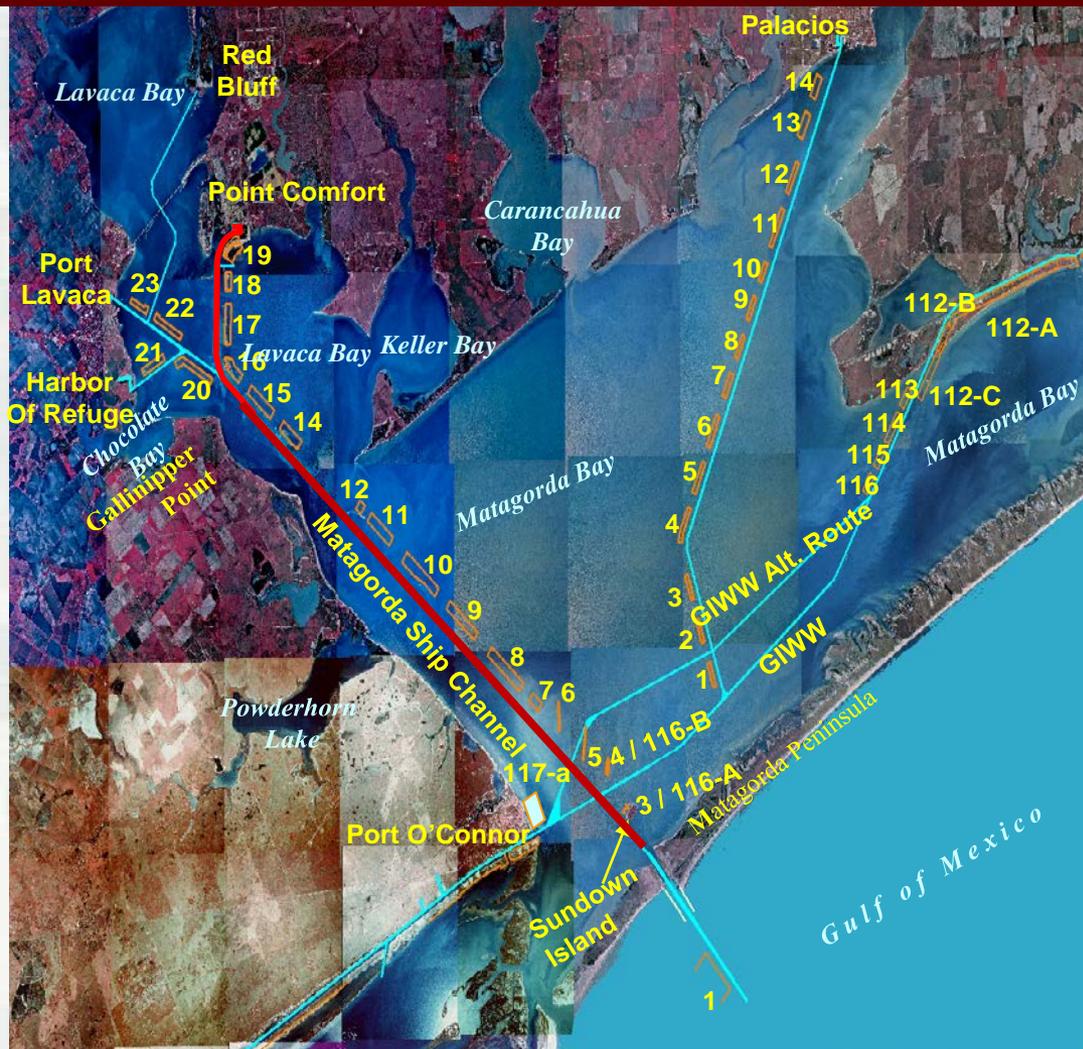


# DEEP DRAFT FY17 PLANNED CONTRACT SCHEDULES





# MATAGORDA SHIP CHANNEL MATAGORDA PENINSULA TO POINT COMFORT



<b>Project:</b>	Matagorda Ship Channel Matagorda Peninsula to Point Comfort
Dredging Depth:	38 ft. Required Depth
Dredging Width:	200 ft.
Dredging Length:	Varies
Dredging Quantity:	1,800,000 cubic yards
Material Type:	Sand/Silt
Placement Area:	Open Water/Semi Confined
Distance to Place Area:	1 Mile Avg.
Type of Equipment:	Pipeline Dredge
Env. Window:	March 1 thru August 31
Reason for Window:	Nesting birds
Award:	September 15, 2017

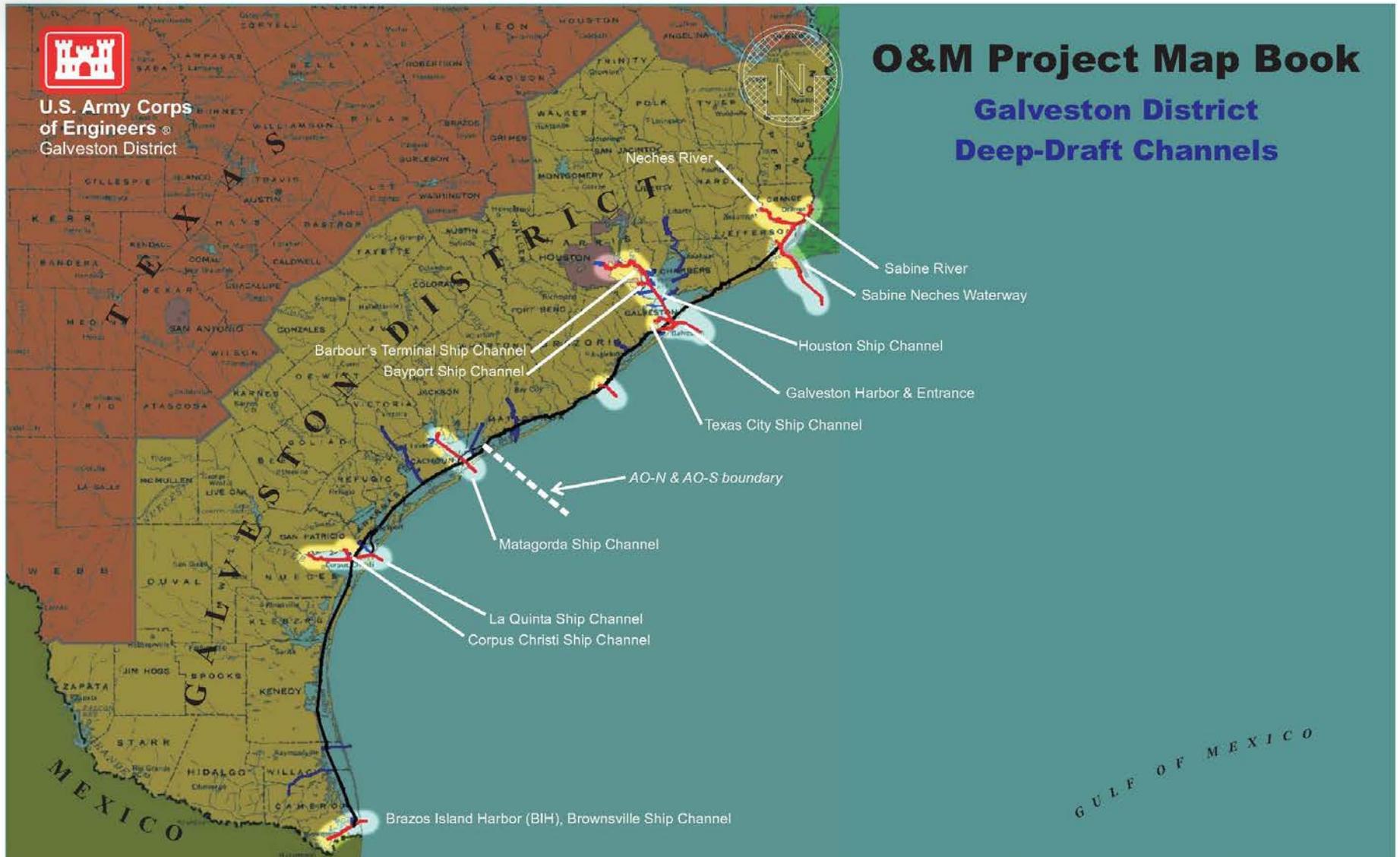
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# DEEP DRAFT FY17 PLANNED CONTRACT SCHEDULES





# CORPUS CHRISTI SHIP CHANNEL PA 13 CONTAINMENT DIKE RAISE



<b>Project:</b>	Corpus Christi Ship Channel PA 13 Containment Dike Raise
<b>Type of Work:</b>	Levee Raising
<b>Dredging Width:</b>	NA
<b>Dredging Length:</b>	NA
<b>Dredging Quantity:</b>	NA
<b>Material Type:</b>	NA
<b>Placement Area:</b>	PA 8
<b>Distance to Placement Area:</b>	NA
<b>Type of Equipment:</b>	Dragline/Earthmoving Equipment
<b>Env. Window:</b>	NA
<b>Reason for Window:</b>	NA
<b>aWARD:</b>	May 23, 2017





# CORPUS CHRISTI SHIP CHANNEL INNER BASIN TO VIOLA T.B. / LAQUINTA CHANNEL



<b>Project:</b>	Corpus Christi Ship Channel Inner Basin to Viola Turning Basin / LaQuinta Channel
<b>Dredging Depth:</b>	47 – 51 ft. Required Depth
<b>Dredging Width:</b>	600 – 1559 ft.
<b>Dredging Length:</b>	Varies
<b>Dredging Quantity:</b>	1,500,000 cubic yards
<b>Material Type:</b>	Silt / Sand
<b>Placement Area:</b>	Open Water and Upland
<b>Distance to Placement Area:</b>	1-4 Miles
<b>Type of Equipment:</b>	Pipeline Dredge
<b>Env. Window (Avoidance Period)</b>	March - November
<b>Reason for Window:</b>	Turtles and Nesting Birds
<b>Award:</b>	September 6, 2017

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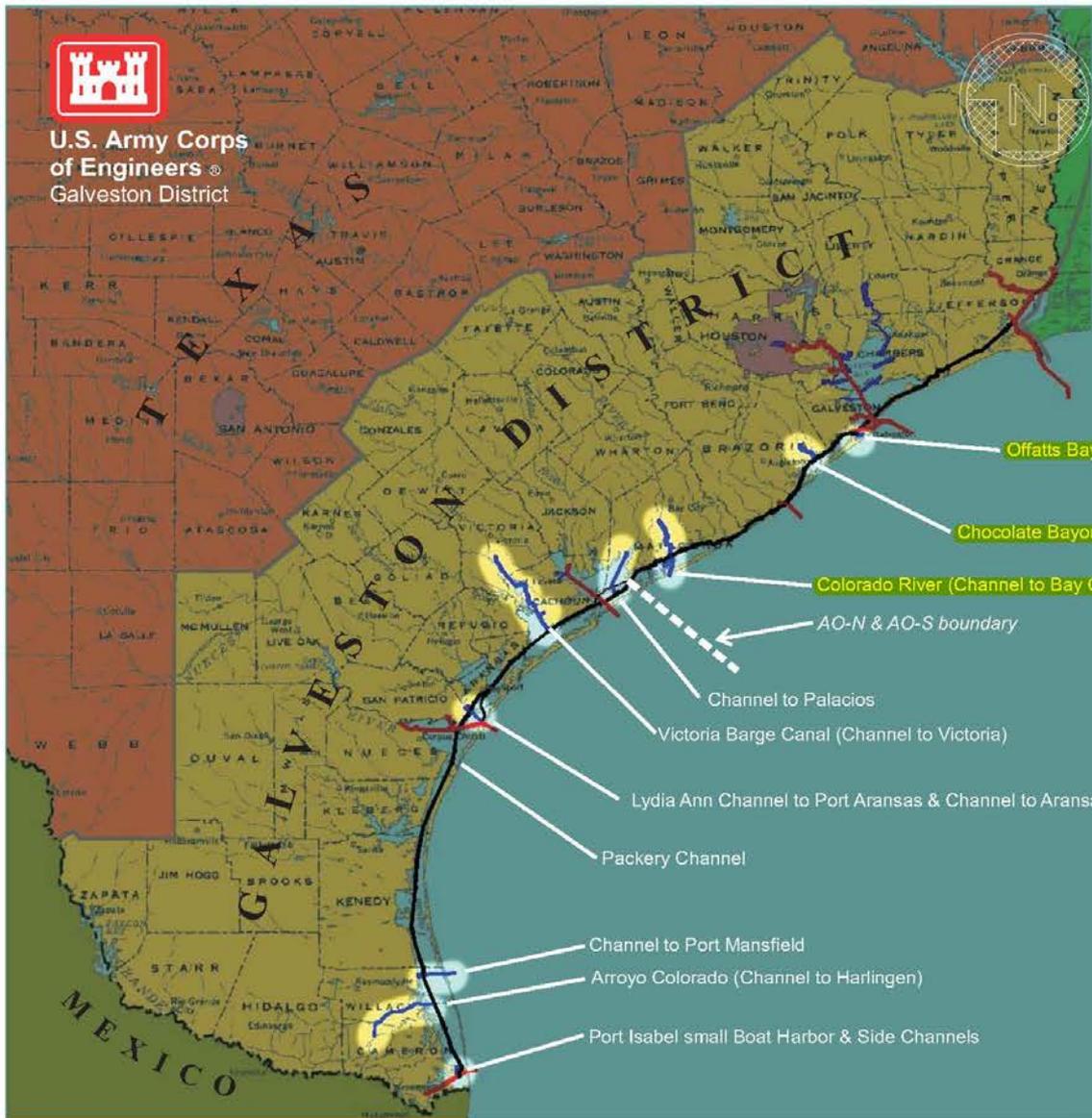
# SHALLOW DRAFT FY17 PLANNED CONTRACT SCHEDULES



U.S. Army Corps  
of Engineers  
Galveston District



## O&M Project Map Book GIWW - Galveston District GIWW Tributaries



GULF OF MEXICO



# CHANNEL TO VICTORIA MIDDLE REACH PA IMPROVEMENTS



<b>Project:</b>	<b>Channel to Victoria Middle Reach PA Improvements</b>
Type of Work:	Improvements
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	NA
Distance to Place Area:	NA
Type of Equipment:	Drag-line/Earthmoving Equipment
Env. Window:	NA
Reason for Window:	NA
Award:	November 16, 2016

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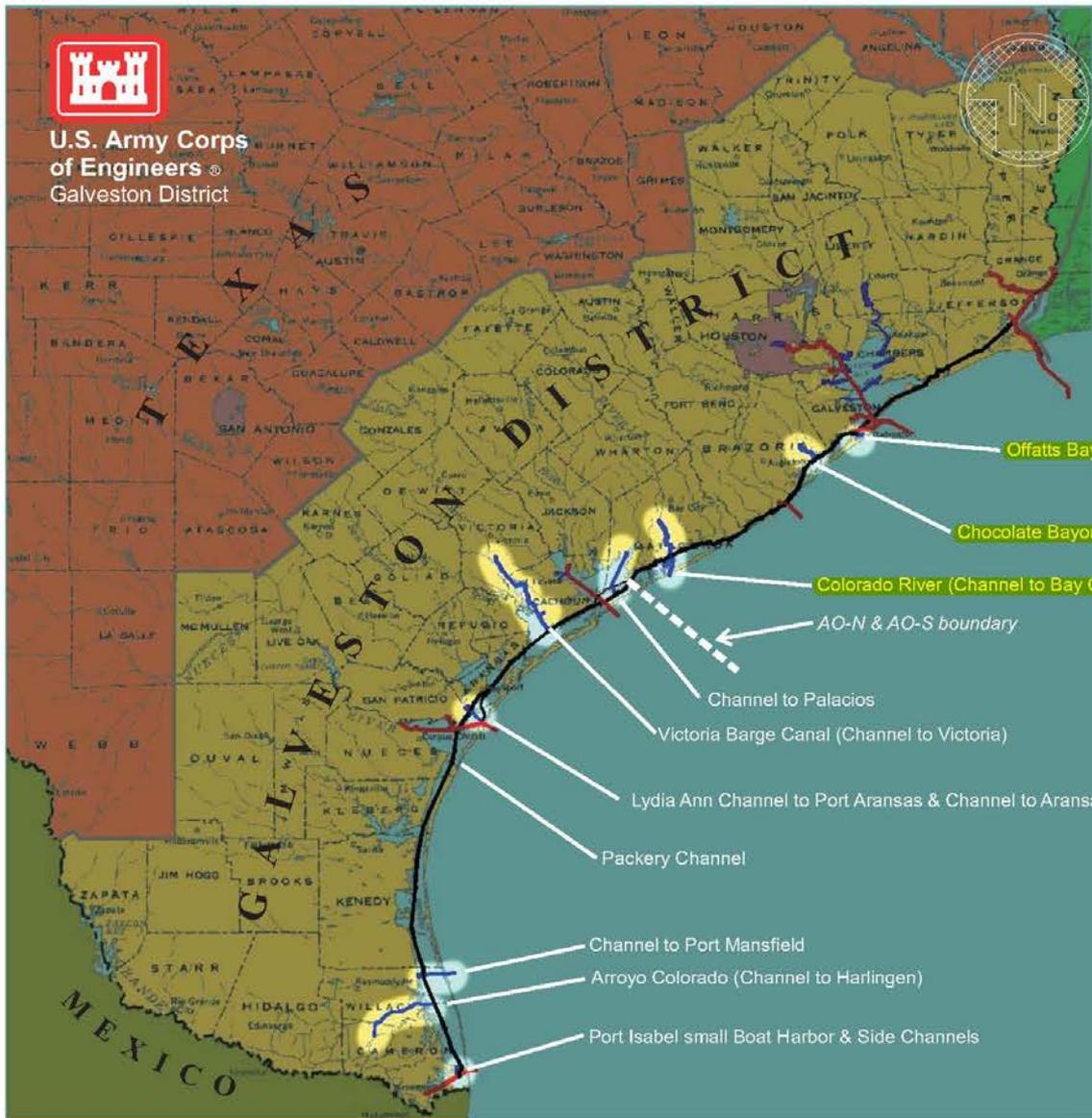
# SHALLOW DRAFT FY17 PLANNED CONTRACT SCHEDULES



U.S. Army Corps  
of Engineers  
Galveston District



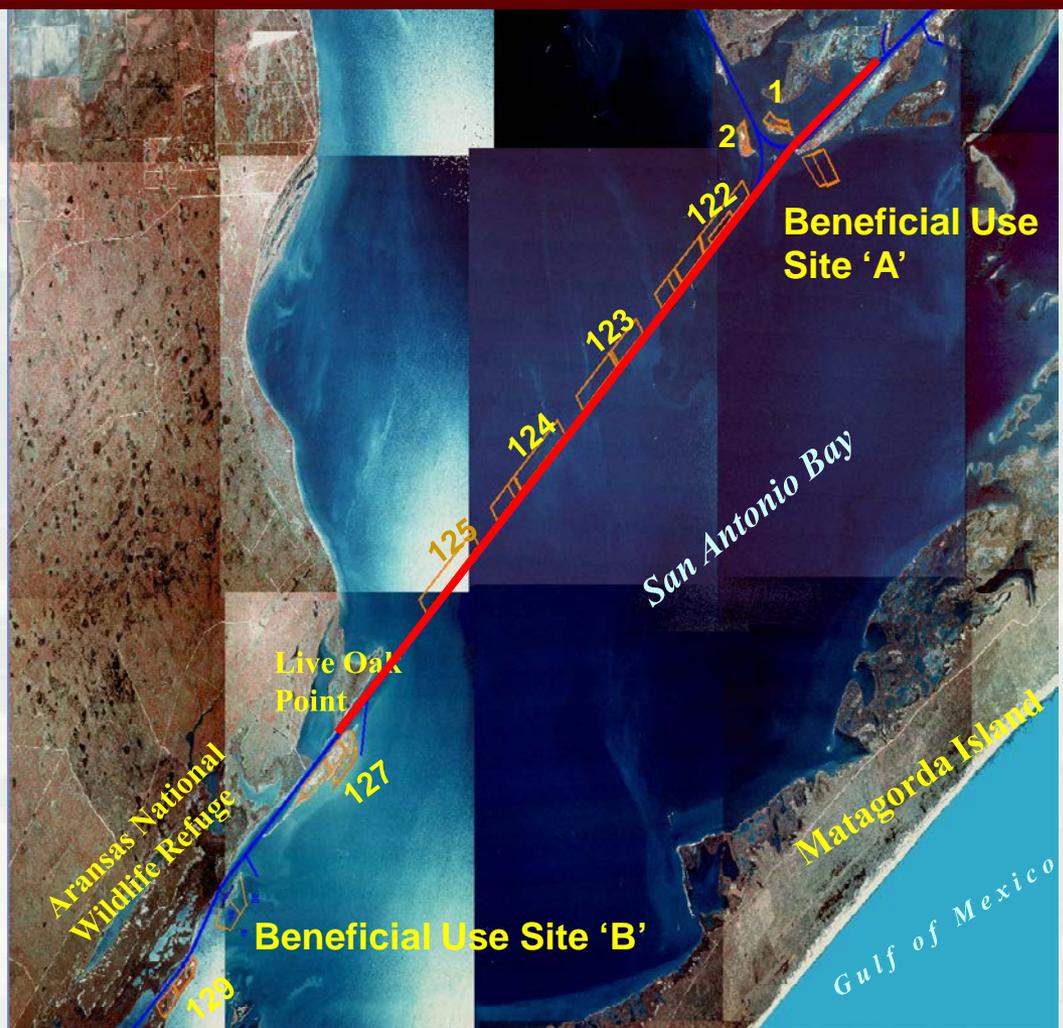
## O&M Project Map Book GIWW - Galveston District GIWW Tributaries



GULF OF MEXICO



# GULF INTRACOASTAL WATERWAY TURNSTAKE TO LIVE OAK



<b>Project:</b>	Gulf Intracoastal Waterway Turnstake to Live Oak
Dredging Depth:	16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	600,000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/BU Sites
Distance to Placement Area:	1 Mile Avg.
Type of Equipment:	Pipeline
Env. Window:	Apr. – Oct.
Reason for Window:	Whooping Cranes
Award:	May 4, 2017

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# GULF INTRACOASTAL WATERWAY PA 86 & 87 CONTAINMENT DIKE RAISE

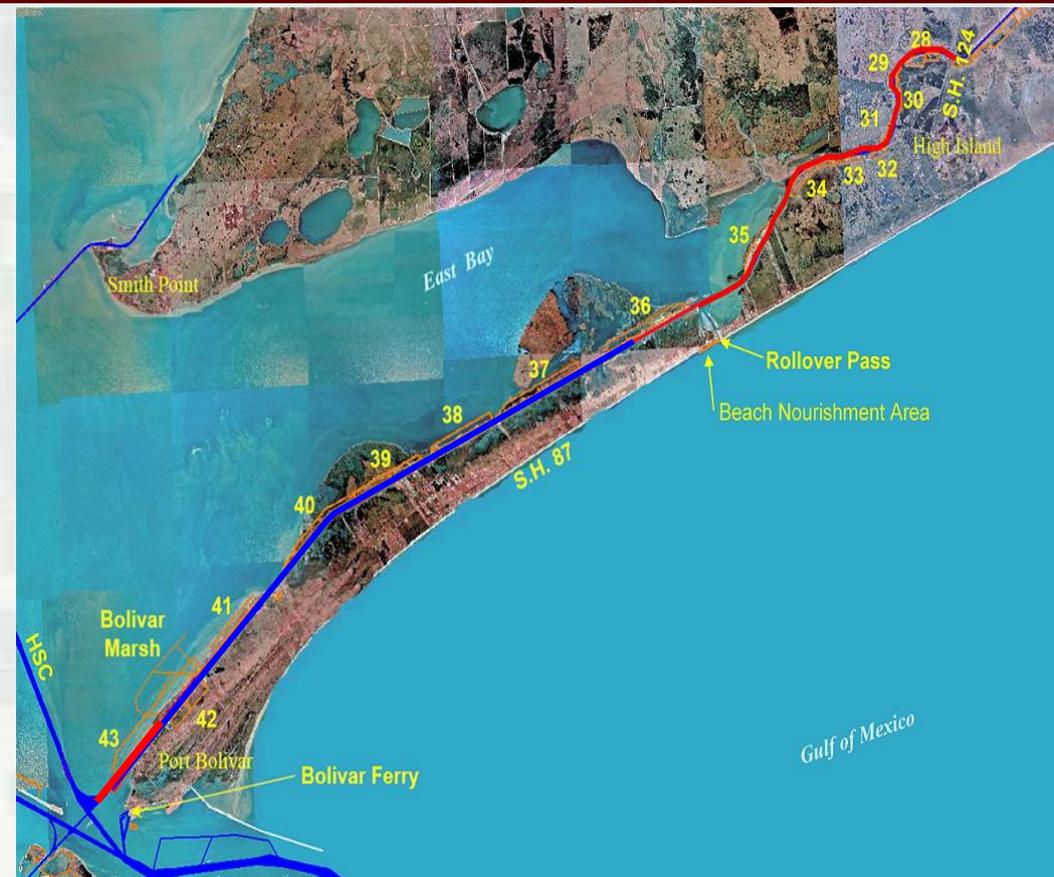


<b>Project:</b>	<b>Gulf Intracoastal Waterway PA 86 &amp; 87 Containment Dike Raise</b>
Type of Work:	Levee Raising
Dredging Width:	NA
Dredging Length:	NA
Dredging Quantity:	NA
Material Type:	Silt/Clay
Placement Area:	PA 86 & 87
Distance to Place Area:	NA
Type of Equipment:	Dragline
Env. Window:	NA
Reason for Window:	NA
Award:	June 20, 2017





# GULF INTRACOASTAL WATERWAY HIGH ISLAND TO ROLLOVER PASS & BOLIVAR FLARE



<b>Project:</b>	<b>Gulf Intracoastal Waterway High Island to Rollover &amp; Bolivar Flare</b>
Dredging Depth:	16 ft. Required Depth
Dredging Width:	125 ft.
Dredging Length:	Varies
Dredging Quantity:	800, 000 cubic yards
Material Type:	Fine Silt/Sand
Placement Area:	Open/Upland Confined/BU
Distance to Placement Area:	2 Miles Avg.
Type of Equipment:	Pipeline
Env. Window:	N/A
Reason for Window:	N/A
Award:	September 14, 2017

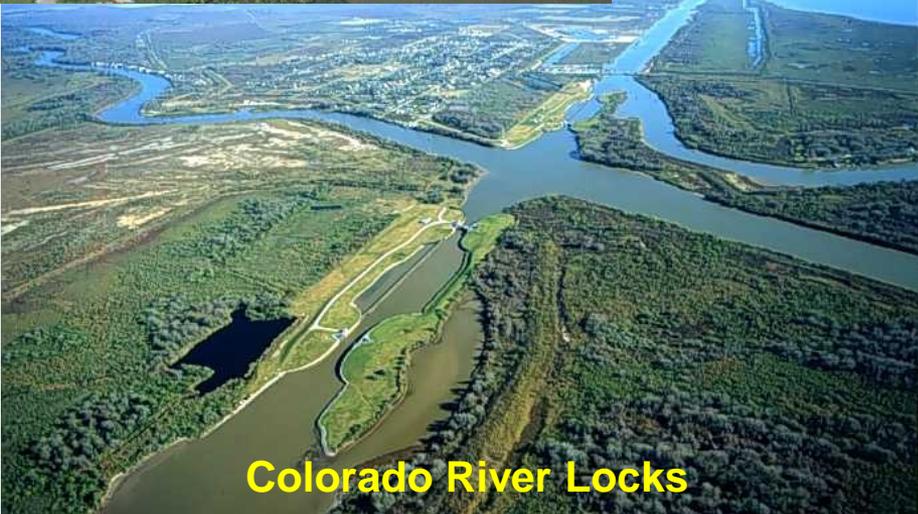




# GULF INTRACOASTAL WATERWAY SCOUR HOLE REPAIRS



**Brazos River Floodgates**



**Colorado River Locks**

<b>Project:</b>	<b>Gulf Intracoastal Waterway Scour Hole Repairs BRFG&amp;CRL</b>
Dredging Depth:	NA
Dredging Width:	NA
Dredging Length:	Varies
Dredging Quantity:	NA
Material Type:	Rock
Placement Area:	Within Channel
Distance to Placement Area:	NA
Type of Equipment:	Crane Barge
Env. Window:	N/A
Reason for Window:	N/A
Award:	September 15, 2017

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# Navigation Project Facilities



- **Minimize shoaling at river crossings**
- **Safety**



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# GALVESTON DISTRICT NAVIGATION

## Questions/Comments?

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