

MEMORANDUM FOR NAVIGATION INTERESTS

SUBJECT: Forecast of Dredging and Marine Construction

SNWW – UPPER REACH NECHES RIVER CHANNEL, PORT ARTHUR CANAL JUNCTION AREA, AND PORT ARTHUR CANAL JUNCTION AREA, AND PORT ARTHUR TURNING BASINS ENTRANCE CHANNEL IN JEFFERSON AND ORANGE COUNTIES, TEXAS

The contract dredge “**Marion**” will be conducting dredging operations in the Port Arthur Junction Area and Taylors Bayou Entrance Channel. Floating and submerged pipelines will extend to the placement area on the east side of the channel. The contractor is Pine Bluff Sand & Gravel.

SNWW – OUTER BAR & BANK CHANNEL

The contract hopper dredge “**Eagle 1**” will be conducting dredging operations in the Outer Bar & Bank Channel. They will be dumping the material on the west side of the channel. The contractor is Bean Stuyvesant, LLC.

HSC, DEEPENING AND WIDENING (HGNC) – MID BAYOU

The dredge “**CALIFORNIA**” is conducting dredge operations upstream approximately three (3) miles south of the Lynchburg Ferry working upstream. Floating and submerged pipelines will extend to the Goat Island placement area.

HSC, DEEPENING AND WIDENING (HGNC) – MID-BAY

Cutterhead dredge “**Borinquen**” is working at Five Mile Cut.

HSC, UPPER BAY AND BARGE LANES

Pipeline dredge “**John LaQuay**” is working downstream, on the “green” side of the HSC near Atkinson Island. Floating and submerged pipelines will extend to the Atkinson Island Placement Area on the east side of the channel.

HSC, LOWER BAYOU

Pipeline dredge “**Jason LaQuay**” is working near SH 146 bridge moving downstream. Floating and submerged pipelines will extend to the Alexander Island Placement Area.

**GULF INTRACOASTAL WATERWAY, TEXAS
SAN BENARD RIVER TO EAST MATAGORDA BAY**

The Dredge “**Everett Fisher**” and related floating plants will begin dredging operations in the Colorado River Crossing December 16, 2004. Dredging in the Colorado River Crossing will be from 7:00 p.m. to 7:00 a.m. for approximately 10 days duration. Dredging in the entire reach will continue thereafter. Floating and submerged lines will extend to Placement Area.

GULF INTRACOASTAL WATERWAY, TEXAS

MAIN CHANNEL IN MATAGORDA BAY & NATURAL BAY BOTTOM ROUTE

Kingfisher Marine Service, LP will have tows with barges and related floating plant offloading earth construction equipment on Sundown Island located adjacent to the channel near Mile Marker 469. Land construction equipment will be building levees in preparation for dredging of the channel. Estimated completion of levee construction is December 2004.

GULF INTRACOASTAL WATERWAY, TEXAS

PORT O'CONNOR TO SAN ANTONIO BAY

Affolter Construction, Inc. will have tows with barges and related floating plant offloading earth construction equipment on the South Bank near Mile Marker 485. The Dredge "**JN Fisher**" (Kingfisher Marine Service,LP) is now offsite. Estimated completion is January 2005.

CORPUS CHRISTI SHIP CHANNEL, TEXAS

LOWER BAY AND LA QUINTA CHANNEL

The Dredge "**Leonard Fisher**" (Kingfisher Marine Service, LP) will be operating in the Corpus Christi Ship Channel adjacent to Brown Pelican Island between Mile Markers 6 and 9. Floating and submerged lines will extend to Brown Pelican Island located on the East Bank. Also, the Contractor will have tows with barges and related floating plant offloading construction equipment on island directly across from the Port Ingleside Navy Base located near Mile Marker 10. Land construction equipment will be building levees in preparation for dredging of the adjacent channel. Estimated completion of dredging is March 2005.

GULF INTRACOASTAL WATERWAY, TEXAS

PACKERY CHANNEL

Luhr Brothers, Inc. will be operating in the proposed Packery Channel via the Gulf Intracoastal Waterway which parallels the East half of the Kennedy Causeway Bridge. Large single stone barges will be staged along the mouth of the Lydia Ann Channel near Harbor Island in Port Aransas and near Mile Marker 550 in Corpus Christi Bay. Tows with stone barges and related floating plant will be operating/anchoring along the proposed Packery Channel. Tows will be delivering multiple stone barges for construction of Jetties. Estimated completion is December 2004.

GULF INTRACOASTAL WATERWAY, TEXAS

BAFFIN BAY TO PORT ISABEL

Kingfisher Marine Service, LP will be constructing open water levees, geotextile containment structures along both banks at various locations along this reach. This Contractor will have tows with barges and related floating plant offloading and loading construction equipment along the entire reach. The Dredge "**Shamrock**" is operating between Baffin Bay and Port Isabel. Floating and submerged lines will extend toward both banks. Estimated completion is March 2005.

GULF INTRACOASTAL WATERWAY, TEXAS

CHANNEL TO HARLINGEN

The Dredge "**JN Fisher**" and related floating plant will be operating along the entire length of the Arroyo. Floating and submerged lines will extend to both banks. This Contractor will have tows with barges and related floating plant offloading and loading earth construction equipment along the entire reach. Estimated completion is March 2005.

**BRAZOS ISLAND HARBOR, TEXAS
BROWNSVILLE INSIDE JETTY CHANNEL**

The Dredge “**Millennium**” (Goodloe Marine, Inc.) will be operating between the Jetties of the Brownsville Ship Channel. Floating and submerged lines will extend toward the South Padre Island Beach located on the North Bank. Estimated completion is December 2004.

- » *Mariners are urged to transit at their slowest safe speed to minimize wake and proceed with caution after passing arrangements have been made.*
- » *Dredging operations are continuous, 24 hrs, 7 days, unless otherwise noted.*
- » *Dredging operations will continue through the month unless otherwise indicated.*
- » *Dredges monitor channel 13 and/or 16 on marine VHF radio, respective dredges should be contacted for coordination of passing and movement near operations.*

DISTRICT ENGINEER
CORPS OF ENGINEERS
GALVESTON DISTRICT

DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1229
GALVESTON, TEXAS 77553-1229

December 2004
HYDROGRAPHIC BULLETIN

CHANNELS WITH PROJECT DEPTHS UNDER 25 FEET

A report of the depths available for navigation in the Federal Project Waterways of the Galveston District

★ Indicates changes from previous report

● Indicates dredging under contract

⊕ Indicates changes from previous report and dredging under contract

Distances are in statute miles

Depths are based on Corps of Engineers mean low tide datum

NOTE: Miles are measured west of Harvey Lock, Louisiana, via the channel across Galveston Bay and channel from Aransas Bay to Corpus Christi Bay.

NOTE: Mileage's are measured west of Harvey Lock, Louisiana, via the Gulf Intracoastal Waterway and Houston Ship Channel to the usual take-off points on Houston Ship Channel.

The main route of the Gulf Intracoastal Waterway traverses the following reaches of other waterways that are maintained under separate projects:

<u>Waterway</u>	<u>Reach</u>
Sabine - Neches Waterway	Sabine River to West Port Arthur
Port Isabel Channel	Port Isabel Turning Basin to Connecting Channels
Connecting Channel *	Port Isabel Channel to Brownsville Channel
Brownsville Channel	Connecting Channel* to Port Brownsville

* Channel connecting Port Isabel and Brownsville Channel called the East and West Wye's.

Critical reaches of the waterway. Interruptions to traffic may occur during rises in the Brazos River since it may not be practicable to operate the floodgates at this crossing during such periods. Some delays may occur at the Colorado River Locks while vessels are locked for passage across the river during rises. Experience thus far in operating the Brazos River Floodgates and the Colorado River Locks has indicated that shoaling during rises of short duration is usually negligible when the structures are kept closed and causes no interruptions to traffic. During major rises in the rivers; however, heavy shoaling may occur in the forebays of the structures; and at times, some dredging may be required before traffic can pass.

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	PROJECT DIMENSIONS			PROJECT CONDITIONS		
		Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
GULF INTRACOASTAL WATERWAY MAIN CHANNEL							
Sabine River - High Island	10/04	125	53.1	12	11.6	12.2	11.5
High Island - Galveston Bay	★ ① 10/04	125	30.0	12	★ 7.4	★ 11.3	★ 5.6
Across Galveston Bay	★ 10/04	125	7.2	12	★ 7.6	★ 11.3	★ 10.4
Alternate Route via Galv. Ch.(REOPENED)	09/04	125	10.3	12	9.8	9.9	9.1
Galveston Bay - Chocolate Bayou	09/04	125	19.0	12	12.5	15.5	13.8
Chocolate Bayou - Freeport Harbor	08/04	125	19.0	12	10.8	13.0	14.3
Freeport Harbor - Brazos River	08/04	125	5.9	12	11.3	11.9	11.4
Brazos River Crossing	08/04	125	0.7	12	12.4	11.6	9.7
Brazos River - San Bernard River	② 08/04	125	4.0	12	12.6	15.1	13.9
San Bernard River - Colorado River	08/04	125	35.6	12	8.5	12.1	8.2
Colorado River Crossing	⊕ 11/04	125	1.0	12	★ 1.6	★ 4.2	★ 5.2
Colorado River - Matagorda Bay (Mile 461.6 WHL)	03/04	125	20.1	12	14.5	16.1	15.9
Mile 461.6 - Port O'Connor	★ 11/04	125	11.1	12	★ 6.2	★ 12.0	13.1
Natural Bay Bottom	★ 11/04	125	0.0	12	★ 5.0	★ 9.0	10.0
Port O'Connor - San Antonio Bay	07/04	125	19.0	12	9.1	10.5	9.9
Across San Antonio Bay	07/04	125-235	8.6	12	10.0	11.0	11.0
San Antonio Bay - Aransas Bay (Light 1)	07/04	125	10.4	12	11.0	10.0	11.7
Across Aransas Bay	08/04	125	13.8	12	8.0	11.0	10.0
Aransas Bay to Corpus Christi Ship Channel	● 09/04	125	14.4	12	6.0	7.0	9.0
Alternate Route via Lydia Ann Channel:							
Aransas Bay 49 to Light 83	★ 10/04	125	7.9	12	10.0	12.0	12.8
Light 83 to Corpus Christi Ship Channel	★ 10/04	125	3.8	12	11.5	10.0	9.0
Corpus Christi Ship Channel to S. Bird Island	③ 10/04	● 125	25.2	12	5.0	11.0	10.0
S. Bird Island to Light 175	● 03/04	125	22.5	12	7.2	10.0	10.0
Light 175 - Banderia Island	04/04	125	21.6	12	7.5	11.0	10.5
Banderia Island - Channel to Port Mansfield	● 04/04	125	23.2	12	7.5	11.0	10.5
Channel to Port Mansfield-Arroyo Colorado	04/04	125	14.5	12	9.3	11.0	9.5
Arroyo Colorado - Port Brownsville	04/04	125	37.6	12	10.0	10.7	7.0

December 2004

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PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left	Middle	Right
					¼ Channel (Feet)	½ Channel (Feet)	¼ Channel (Feet)
GULF INTRACOASTAL WATERWAY TRIBUTARY CHANNELS							
ADAMS BAYOU CHANNEL							
Channel	01/04	100	1.6	12	4.8	7.8	6.3
DOUBLE BAYOU							
4.1 Miles in Bay to Mouth of Bayou	10/03	125	4.1	7	4.0	6.0	6.0
Mouth of Bayou to 2 Miles above Mouth	10/03	100	2.0	7	5.0	6.0	5.0
COW BAYOU CHANNEL							
Channel	03/04	100	7.1	13	4.6	7.5	8.0
Orangefield Turning Basin	03/04	300	0.1	13	1.2	4.3	5.8
OFFATTS BAYOU CHANNEL							
Channel	5/04	125	2.2	12	5.0	6.8	5.3
CHOCOLATE BAYOU CHANNEL							
Bay Channel	★ 10/04	125	5.6	12	★ 7.3	★ 9.7	★ 7.9
Land Cut	★ 10/04	125	2.9	12	★ 6.5	★ 7.8	★ 7.5
SAN BERNARD RIVER CHANNEL							
Mile 0 to Mile 0.5	07/04	1032-100	0.5	9	3.3	8.1	4.2
Mile 0.5 to Mile 3.75	07/04	100	3.3	9	9.3	9.3	6.8
Mile 3.75 to Mile 8.0	4/94	100	4.3	9	n/a	9.0	n/a
Mile 8.0 to Mile 20.5	4/94	100	12.5	9	n/a	9.0	n/a
Mile 20.5 to Mile 25.2	4/94	100	4.7	9	n/a	9.5	n/a
Mile 25.2 to Mile 26.0	4/94	100	0.8	9	n/a	9.0	n/a
MOUTH OF THE COLORADO RIVER							
Mile 0 (Gulf) to Mile 0.8	09/04	200	0.8	15	0.4	0.4	2.5
Mile 0.8 to Mile 2.5	09/04	100	1.7	12	0.4	0.7	0.3
Mile 2.5 to Mile 7.11 (GIWW)	09/04	100	4.6	12	9.4	8.9	6.5

December 2004

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					¼ Channel (Feet)	½ Channel (Feet)	¼ Channel (Feet)
COLORADO RIVER CHANNEL							
By-Pass Channel	09/04	100	0.9	9	11.0	7.8	4.4
Mile 0 (GIWW) to Mile 2	02/04	100	2.0	9	9.8	9.5	7.2
Mile 2 to Mile 8	02/04	100	6.0	9	3.5	5.8	5.4
Mile 8 to Mile 13.5	2/01	100	5.5	9	0.5	9.0	7.3
Mile 13.5 to Mile 15.5	03/04	100	2.0	9	0.9	3.8	3.6
Turning Basin	03/04	100	0.1	9	7.0	11.9	12.6
CHANNEL TO PALACIOS							
Mile 0 (GIWW) to Light 40	07/04	125	10.0	12	8.1	8.4	9.5
Light 40 to City Basin	07/04	125	6.2	12	8.2	9.5	7.7
City Basin	07/04	150	0.1	12	13.0	13.3	13.3
Entrance Channel to Mun. Basin	07/04	400-130	0.1	12	13.2	12.7	12.2
Municipal Basin	07/04	240	0.2	12	13.0	13.0	13.0
CHANNEL TO PORT LAVACA AND RED BLUFF							
Port Lavaca Channel	05/04	125	4.1	12	10.0	10.0	10.0
Lynn Bayou Turning Basin	05/04	30-300	0.1	12	10.0	10.0	10.0
Port Lavaca Harbor of Refuge:							
Approach Channel	05/04	125	2.1	12	7.0	7.0	7.0
North-South Basin	05/04	300	0.3	12	13.7	14.0	13.0
East-West Basin	05/04	250	0.3	12	13.0	13.0	10.2
Extension to Red Bluff via Lavaca and Navidad Rivers:							
Mile 0 to Mile 6.5	06/04	100	6.5	6	1.2	1.3	1.1
Mile 6.5 to F.M. Rd. 616	6/99	100	13.7	6	4.0	4.0	4.0

December 2004

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		Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
CHANNEL TO VICTORIA							
Mile 0 (GIWW) to Mile 11	★④ 08/04	100	11.0	9	★ 10.0	★ 11.5	★ 9.5
Westerly connecting 'Y' channel	★ 08/04	100	0.8	9	★ 9.4	★ 10.0	★ 9.5
Mile 11 to Mile 14.0	08/04	100	3.0	9	10.0	12.0	9.8
Mile 14.0 to Mile 29	08/04	100	15.0	9	8.6	11.5	7.7
Mile 29 to Mile 34.7	08/04	100	5.7	9	12.0	14.5	12.0
Turning Basin	4/02	100-818	0.2	9	14.0	14.0	14.0
Connecting Channel to Seadrift	08/04	100	2.0	12	7.5	7.5	7.0
Seadrift Turning Basin	08/04	230	0.0	9	7.5	8.0	7.5
CHANNEL TO FULTON							
Channel	08/04	100	0.5	12	6.0	7.0	6.0
Turning Basin	08/04	200	0.2	12	6.0	8.0	7.0
CHANNEL TO ROCKPORT							
Channel	08/04	100	6.8	9	9.0	9.0	9.2
Harbor Basin	08/04	350	0.2	9	4.5	8.0	7.5
CHANNEL TO ARANSAS PASS							
Channel	08/04	125-175	6.1	14	7.0	8.5	10.9
Turning Basin	08/04	300	0.4	14	13.6	14.0	14.4
Connecting Channel	08/04	125	0.1	14	15.0	15.5	15.0
Conn Brown Harbor	08/04	50-510	0.4	14	14.0	14.0	14.0
CHANNEL TO PORT ARANSAS							
Channel	★ 10/04	100	0.2	12	★ 5.9	★ 5.5	★ 5.5
Turning Basin	★ 10/04	200-400	0.2	12	★ 4.9	★ 4.6	★ 4.5

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left	Middle	Right
					$\frac{1}{4}$ Channel (Feet)	$\frac{1}{2}$ Channel (Feet)	$\frac{1}{4}$ Channel (Feet)
CHANNEL TO PORT MANSFIELD							
Entrance Channel	07/04	250	0.7	16	6.5	6.5	7.0
Mile 0.7 to Mile 1.3	07/04	100-300	0.6	14	13.2	13.4	14.0
Mile 1.3 to Mile 3	07/04	100	1.7	14	11.0	11.0	11.2
Mile 3 to Mile 6	07/04	100	3.0	14	13.2	13.3	13.9
Mile 6 to Main Channel (GIWW)	07/04	100	2.9	14	6.4	6.5	6.4
Entrance Curves	07/04	200	0.6	12	6.6	6.4	6.2
Main Channel to Turning Basin	07/04	125-200	0.9	14	7.0	8.0	8.3
Turning Basin	07/04	200-400	0.7	14	13.0	14.4	13.0
Shrimp Basin	07/04	350	0.3	12	12.2	12.5	12.3
CHANNEL TO PORT HARLINGEN							
North Wye	● 07/04		x	12	12.0	11.0	9.8
South Wye	● 07/04		x	12	9.0	9.8	11.0
Mile 0 to Mile 8	07/04	200-125	8.0	12	9.0	11.0	9.2
Mile 8 to Mile 20	07/04	125	12.0	12	5.5	9.7	8.2
Mile 20 to Mile 25.9	● 07/04	125	5.9	12	5.3	7.5	7.0
Turning Basin	● 07/04	400	0.1	12	7.0	5.5	9.0
SIDE CHANNELS AT PORT ISABEL							
60-foot channel	06/04	60	0.2	12	9.0	10.0	7.3
125-foot channel	06/04	125	1.1	12	12.0	12.0	10.0
125-foot Channel - South Leg	06/04	125	1.1	12	10.6	11.0	10.5
PORT ISABEL SMALL BOAT HARBOR							
					USABLE DIMENSIONS		
Entrance Channel	07/04	75	1.5	9	2.0	2.7	2.0
Harbor Channel	07/04	50	0.3	7	2.0	2.0	2.0
Basin	07/04	50-500	0.3	6	5.5	5.7	3.4

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	PROJECT CONDITIONS		
					Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
HOUSTON SHIP CHANNEL, TRIBUTARY CHANNELS							
CEDAR BAYOU							
Houston Ship Channel to U.S. Steel Dock	08/03	100	5.5	11	7.0	8.0	6.0
ATKINSON ISLAND							
Barge Mooring Basin	1/02	100-150	1.8	12	9.4	9.5	9.3
GREENS BAYOU CHANNEL							
First bend to Parker Brothers Slip	11/03	150-100	1.3	15	13.0	11.0	9.0
BRADY ISLAND CHANNEL							
Upstream from Cypress Str. Bridge	03/04	50	0.3	10	13.0	12.0	10.0
Downstream from Cypress Str. Bridge	03/04	50	0.5	10	7.0	8.0	8.0
CHANNEL IN BUFFALO BAYOU							
Houston Turning Basin to 69th Street Bridge	04/04	60	0.8	10	5.0	5.0	9.0
69th Street Bridge to Lockwood Drive Bridge	04/04	60	1.5	10	10.0	8.0	6.0
Lockwood Drive Bridge to Jensen St. Bridge	04/04	60	1.7	10	1.0	5.0	4.0
Turkey Bend Channel	02/03	60	0.8	10	7.3	9.7	5.3
Jensen Street Bridge to Southern Pacific Dock	3/94	60	0.6	9		10ft by 50ft	

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

SHALLOW DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	PROJECT CONDITIONS		
					Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
USABLE DEPTHS IN OTHER SMALL ACTIVE CHANNELS					USABLE DIMENSIONS		
CHANNEL TO PORT BOLIVAR	4/99	200	0.1	14	18.0 ft by 200 ft		
DICKINSON BAYOU							
Light 2 to Light 27	10/03	60	9.9	6	6.0	5.0	5.0
Light 27 to Highway 146 Bridge	10/03	60	1.5	6	2.0	2.0	1.0
CHANNEL TO LIBERTY							
Houston Ship Channel to Smith Point	3/02	150	6.4	9	0.2	0.2	0.2
Anahauc	⑦ 03/04	100	6.4	6.0	4.0	4.0	3.0
Anahuac Channel to Texas Gulf Sulphur Slip	6/01	100	11.3	6.0	4.6	4.5	4.1
Texas Gulf Sulphur Slip to Devers Canal	2/94	100	9.5	6	4.0 ft at centerline		
Devers Canal to South Liberty Oil Field	7/01	100	12.2	6	+0.4' x 100'		
South Liberty Oil Field to Cut Off Channel	7/01	100	2.2	6	+0.1, +2.6, +1.5		
Cut Off Channel to Liberty	7/01	100	3.1	6	-3.2, +1.6, +2.6		
CLEAR CREEK AND CLEAR LAKE							
Entrance Channel	03/04	75	3.3	9	12.0	13.0	12.0
North Fork Channel	5/88	60	0.7	7	1.0 ft by 60 ft		
Clear Lake Channel	03/04	60	2.8	7	2.0	3.0	2.0
Clear Creek Channel	5/98		3.8		7.0 ft by 60 ft		
Five Mile Cut	09/04	125	1.9	12	6.0	6.0	6.0
JEWEL FULTON CANAL							
Canal	10/04	100	0.9	16	15.5	16.0	16.3
Basin	10/04		0.1	16	14.0	14.0	14.0
RINCON CANAL							
Approach Channel	08/04	100-567	2.9	10	6.0	6.0	7.5
Connecting Channel	08/04	275	0.4	10	8.0	8.0	8.0
Canal "A"	08/04	100-125	0.9	10	9.5	10.0	10.0
Turning Basin	08/04	275	0.1	10	11.0	11.0	11.0

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		Feet Width	Miles Length	Feet Depth	Left ¼ Channel (Feet)	Middle ½ Channel (Feet)	Right ¼ Channel (Feet)
Brownsville Fishing Boat Harbor							
Entrance Channel	07/04	100	0.2	15	17.0	16.5	13.0
Connecting Channel	07/04	265	0.2	15	14.6	14.5	14.1
West Connecting Channel	07/04	265	0.2	15	14.6	14.5	14.1
West Basin	07/04	305-370	0.3	15	14.0	14.3	15.0
Middle Basin	07/04	305-370	0.2	15	13.5	13.0	13.6
East Basin	07/04	305-370	0.1	15	13.0	13.5	13.4

NOTES:

- ① Entire area is not shoaled up. Minor shoaling right and left toe 3000 ft. west of Mile Marker 349.25.
- ② Entire area is not shoaled up. Minor shoaling from Mile Marker 418.01 to 200 ft. past Mile Marker 418.02 at right and left toe.
- ③ Shoaling at Mile Marker 540 extending 700' south of intersection of Corpus Christi Ship Channel and GIWW.
- ④ From mile "0" to mile "6" this area was surveyed. Depths were arrived from this reach.
- ⑤
- ⑥
- ⑦ The river portion of Anahuac Channel controlling depth are 0' Lt. Qtr., 1' Middle half, 3' Right Qtr.
- ⑧
- ⑨

**DEPARTMENT OF THE ARMY
GALVESTON DISTRICT, CORPS OF ENGINEERS
P.O. BOX 1229
GALVESTON, TEXAS 77553-1229**

**December 2004
HYDROGRAPHIC REPORT**

CHANNELS WITH PROJECT DEPTHS 25 FEET OR OVER

A report of the depths available for navigation in the Federal Project Waterways of the Galveston District

★ Indicates changes from previous report

● Indicates dredging under contract

⊕ Indicates changes from previous report and dredging under contract

Distances are in statute miles

Depths are based on Corps of Engineers mean low tide datum

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
SABINE-NECHES WATERWAY								
Sabine Pass:								
Sabine Bank Channel	07/04	800	14.73	42	40	42	42	35
Outer Bar Channel	06/04	800	3.41	42	39	41	40	37
Jetty Channel	04/04	800-500	4.07	40	35	43	42	31
Pass Channel	● 10/04	500-1150	5.61	40	34	39	42	34
Anchorage Basin	01/04	1500	0.57	40	33	21	11	x
Port Arthur Canal	08/04	500	5.49	40	35	41	38	33
Junction-Port Arthur Canal and Sabine-Neches Canal	07/04	400-1200	1.25	40	29	37	32	29
Entrance to Port Arthur Turning Basins	09/04	282-735	0.28	40	34	35	36	34
Port Arthur East Turning Basin	07/04	370-547	0.34	40	36	35	36	36
Port Arthur West Turning Basin	07/04	350-735	0.38	40	35	34	37	36
Channel from Port Arthur West Turning Basin to Taylors Bayou Turning Basin	07/04	200-350	0.57	40	35	34	37	35
Taylors Bayou Turning Basin	07/04	90-1233	0.66	40	31	37	38	33
Sabine-Neches Canal:								
Junction with Port Arthur Canal to Neches River	06/04	400	11.07	40	35	40	38	30
Neches River to Sabine River (Section B)	10/04	200	4.51	30	23	25	25	23

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
Neches River Channel:								
Mouth to Smith Bluff Cut-off	06/04	400	9.58	40	28	33	38	35
Turning Basin at Deer Bayou	06/04	700	0.18	40	40	38	38	38
Turning Basin at Smiths Bluff	06/04	1400-400	0.26	40	41	39	40	38
Smith Bluff Cut-off to Beaumont Turning Basin	07/04	400	8.7	40	33	38	37	29
Turning Basin @ mile 40.3	06/04	400-1306	0.18	40	39	42	42	41
Channel Extension C	07/04	350	0.23	36	38	38	38	37
Maneuvering Area at Beaumont Turning Basin	05/04	varies	0.68	40	33	38	37	30
Beaumont Turning Basin	04/03	400-535	0.28	34	37	35	36	30
Beaumont Turning Basin Extension	05/04	300	0.26	34	33	33	29	23
Beaumont Turning Basin Extension to vicinity of Bethlehem Shipyards	05/04	200	0.73	30	13	21	19	13
Sabine River Channel:								
Mouth to Orange Municipal Slip	08/04	200	7.59	30	30	31	31	32
Orange Turning Basin	08/04	200-1400	0.66	30	30	32	32	31
Orange Municipal Slip	08/04	150-200	0.57	30	23	30	25	23
Orange Municipal Slip to Old U.S. Highway 90 Bridge Site	08/04	200	2.56	30	31	31	31	29
Channel around Orange Harbor Island	08/04	150-200	1.89	25	12	15	19	18

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
GALVESTON HARBOR								
Entrance Channel	● 09/04	800-1000	8.6	45	47	48	48	45
Outer Bar Channel	⑥ 08/04	⑥ 800	1.7	⑥ 45	⑥ 47	⑥ 47	⑥ 47	⑥ 48
Inner Bar Channel	⑥ 06/04	⑥ 800	3.3	⑥ 45	⑥ 44	⑥ 46	⑥ 46	⑥ 46
Anchorage Basin	① 09/04	3100	1.9	34	36	36	36	36
Bolivar Roads Channel	⑥ 08/04	⑥ 800	0.9	⑥ 45	⑥ 47	⑥ 48	⑥ 47	⑥ 46
Bolivar Roads to Exxon Oil Dock	★ 11/04	1125	1.2	40	★ 27	★ 33	★ 41	★ 42
Exxon Oil Dock to Todds Shipyds	09/04	1125	1.5	40	38	39	36	31
Todds Shipyards to Pier B (43rd St.)	05/04	1075	1.3	40	28	36	30	20
TEXAS CITY HARBOR								
Bolivar Roads to Turning Basin	★ 11/04	400	6.8	40	★ 37	★ 42	42	★ 38
Texas City Turning Basin	★ 11/04	1200	0.6	40	★ 34	★ 31	★ 33	★ 30
Industrial Canal	04/04	250-1200	1.7	40	38	41	40	37
Industrial Turning Basin	04/04	1000	0.2	40	40	40	40	39
HOUSTON SHIP CHANNEL								
Bolivar Roads to Red Fish Light 1	⑤ 06/04	⑤ 530	⑤ 11.05	⑤ 45	⑤ 48	⑤ 46	⑤ 46	⑤ 44
Red Fish Light 1 to Beacon 76 (Turn)	01/04	400	8.3	40	40	45	44	40
Beacon 76 to Lower End Morgans Point Cut	⑤ 01/04	⑤ 530	⑤ 7.58	⑤ 45	⑤ 36	⑤ 41	⑤ 42	⑤ 34
Bayport Channel								
Flare at Houston Ship Channel	09/04	5243-300	0.5	40	37	38	37	36
Entrance Channel	08/04	300	3.12	40	39	38	41	39
Turning Basin	04/04	300-1600	0.46	40	31	32	34	31

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
Lower End Morgans Point Cut to Exxon Oil Co. Slip	06/04	400-525	4.8	42	37	40	42	38
Barbours Terminal Channel								
Flare at Houston Ship Channel	07/04	1222-300	0.4	40	36	39	36	35
Entrance Channel	07/04	300	0.62	40	39	41	41	40
Turning Basin	04/04	300-1900	0.52	40	40	40	39	36
Exxon Oil Co. Slip to Carpenter Bayou	11/03	400-525	5.6	40	34	36	41	36
Carpenter Bayou to Greens Bayou	03/04	400-300	5.4	40	36	40	37	32
Entrance to Greens Bayou to first bend above mouth	05/04	500-175	0.4	36	3128	29	31	34
Greens Bayou to Hunting Bayou (Upper End)	09/04	300	2.2	40	37	41	41	38
Turning Point at Hunting Bayou	09/04	600	0.2	40	38	41	43	40
Hunting Bayou to Southern Pacific Slip	09/04	300	3.5	40	37	40	40	35
Turning Point at Clinton Island	09/04	700	0.3	40	39	40	40	39
Southern Pacific Slip To Turning Basin Wharf 15	05/04	300	3.1	36	32	34	35	33
Turning Point at Brady Island	01/04	422	0.2	36	30	37	40	39
Turning Basin	11/03	250-1000	0.8	36	31	32	34	31
Upper Turning Basin	05/04	150	0.26	36	18	17	16	11

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
FREEPORT HARBOR								
Outer Bar Channel	★ 11/04	400	4.36	47	★ 48	★ 48	★ 48	★ 45
Jetty Channel	★ 11/04	400	1.33	45	46	★ 47	★ 47	★ 37
Lower Turning Basin	● 10/04	750	0.19	45	47	47	46	46
Channel to Brazosport Turning Basin	09/04	400-600	0.47	45	42	45	44	41
Brazosport Turning Basin	09/04	500-100	0.28	45	43	45	44	41
Channel to Upper Turning Basin	09/04	280-750	1.03	45	37	46	46	44
Upper Turning Basin	09/04	600-1190	0.18	45	44	45	47	47
Brazos Harbor Approach Channel	09/04	200-650	0.53	36	37	38	39	39
Brazos Harbor Turning Basin	09/04	750	0.11	36	35	37	38	38
MATAGORDA SHIP CHANNEL								
Sea Bar and Jetty Channel	07/04	300	3.69	38	41	40	41	40
Matagorda Peninsula to LT.48	07/04	300-200	12.47	36	30	35	34	30
Light 48 to Alcoa Channel	07/04	200	8.54	36	32	35	32	29
Alcoa Channel to Turning Basin	07/04	200-399	1.13	36	29	31	32	31
Point Comfort Turning Basin	07/04	1000	0.19	36	32	32	32	31

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
CORPUS CHRISTI SHIP CHANNEL								
Aransas Pass:								
Sea Bar Channel	★ 11/04	700-600	2.79	47	★ 46	★ 47	★ 47	46
Jetty Channel	★ 11/04	600	1.28	47-45	49	46	45	★ 45
Inner Basin at Harbor Is.(\$)	★ 11/04	600-1559	0.63	45	★ 42	★ 48	★ 46	★ 47
Inner Basin Main Channel	★ 11/04	600	0.63	45	★ 51	56	56	★ 51
Humble Basin to Junction at La Quinta Channel	⊛ 10/04	600-500	10	45	35	42	45	42
La Quinta Channel Junction to Bcn. 82	03/04	400	9.66	45	40	44	47	42
Bcn. 82 to Main Turning Basin	★ 10/04	400-300	0.91	45	36	42	★ 42	38
Main Turning Basin	★ 10/04	300-800	1.21	45	★ 40	★ 42	41	★ 36
Industrial Canal	08/04	400	0.59	45	44	46	46	45
Avery Point Turning Basin	08/04	400-975	0.47	45	45	46	46	45
Tule Lake Channel	08/04	200-400	3.79	45	45	45	44	45
Chemical Turning Basin	08/04	400-1200	0.48	45	46	45	45	45
Tule Lake Turning Basin	08/04	1200-300	0.45	45	46	46	46	45
Viola Channel	08/04	300-200	1.71	45	47	46	43	40
Viola Turning Basin	08/04	700-900	0.3	45	47	46	46	40
CHANNEL TO LA QUINTA								
Channel	★ 10/04	300-400	5.49	45	42	★ 43	★ 40	38
Turning Basin	★ 10/04	1200	0.35	45	43	★ 44	45	★ 45

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
BRAZOS ISLAND HARBOR								
Brazos Santiago Pass:								
Entrance Channel	08/04	300	1.9	44	44	42	41	40
Jetty Channel	08/04	300-400	1.9	42	40	40	37	36
Channel across Laguna Madre	08/04	250	2.9	42	34	41	43	36
Brownsville Channel:								
Junction Basin to Boca Chica Passing Basin	01/04	250	4	42	41	43	43	42
Boca Chica Passing Basin to Goose Island Passing Basin	01/04	250	5.4	42	38	41	41	39
Goose Island Passing Basin to Brownsville Turning Basin	01/04	300	2.8	42	41	44	44	43
Brownsville Turning Basin Extension	01/04	500	1.4	42	33	36	38	38
Brownsville Turning Basin	01/04	500-1200	0.5	36	29	37	37	34
Port Isabel Channel:								
East Wye	01/04	200	1.2	36	35	35	35	34
Turning Basin	01/04	1000	0.25	36	34	35	35	34
West Wye	01/04	200	1	36	32	35	32	30

December 2004

PROJECT DIMENSIONS

PROJECT CONDITIONS

DEEP DRAFT CHANNELS	Date of Survey	Feet Width	Miles Length	Feet Depth	Left Outside Qtr (Feet)	Left Inside Qtr (Feet)	Right Inside Qtr (Feet)	Right Outside Qtr (Feet)
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NOTES:

- ① The controlling depth is 36 ft. There is shoaling above 36 ft. in the northwest corner of the Anchorage Basin. Vacinity of Lat.29° 21' 14.69"N & Long. 94° 44' 05.65"W; Lat. 29° 21' 02.97"N & Long. 94° 44' 33.76"W.
- ② Entrance Ch. depths shown on Hydro Bulliten. Extended Entrance Ch. depths are Lt. O/S 47', Lt. I/S 49', Rt. I/S 49', Rt. O/S 48'.
- ③
- ④
- ⑤ Depths for this reach are taken on the revised depth and alignment for the deepening and widening of the Houston Ship Channel.
- ⑥ Depths for this reach are taken on the revised depth and alignment for the deepening and widening of the Galveston Channel.
- ⑦
- ⑧