



SECTION I

NM 7/02

Chart 11301

NM 7/02

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS: ENTRANCE CHANNEL	42.0	40.0	39.0	8-01	300	1.7	44
LAGUNA MADRE CHANNEL	44.0	44.0	44.0	6-01	250	2.5	42
BROWNSVILLE SHIP CHANNEL: JUNCTION BASIN TO BOCA CHICA PASSING BASIN	44.0	44.0	44.0	6-01	250	3.5	42
BOCA CHICA PASSING BASIN TO GOOSE I. PASSING BASIN	44.0	44.0	44.0	6-01	250	4.7	42
GOOSE I. PASSING BASIN TO BROWNSVILLE TURNING BASIN	44.0	44.0	44.0	6-01	300	2.4	42
BROWNSVILLE TURNING BASIN	35.0	36.0	35.0	3-00	500-1200	1.7	42-36
PORT ISABEL CHANNEL: JUNCTION TO TURNING BASIN (INCLUDING WIDENER AT JUNCTION)	38.0	38.0	38.0	12-00	200	1.0	36
PORT ISABEL TURNING BASIN	38.0	38.0	38.0	12-00	1000	0.2	36
CUT OFF CHANNEL	38.0	38.0	38.0	12-00	200	0.9	36
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

Chart 11302 (Side B)

NM 7/02

BROWNSVILLE AND PORT ISABEL HARBORS CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BRAZOS SANTIAGO PASS: ENTRANCE CHANNEL	42.0	40.0	39.0	8-01	300	1.7	44
LAGUNA MADRE CHANNEL	44.0	44.0	44.0	6-01	250	2.5	42
BROWNSVILLE SHIP CHANNEL: JUNCTION BASIN TO BOCA CHICA PASSING BASIN	44.0	44.0	44.0	6-01	250	3.5	42
BOCA CHICA PASSING BASIN TO GOOSE I. PASSING BASIN	44.0	44.0	44.0	6-01	250	4.7	42
GOOSE I. PASSING BASIN TO BROWNSVILLE TURNING BASIN	44.0	44.0	44.0	6-01	300	2.4	42
BROWNSVILLE TURNING BASIN	35.0	36.0	35.0	3-00	500-1200	1.7	42-36
PORT ISABEL CHANNEL: JUNCTION TO TURNING BASIN (INCLUDING WIDENER AT JUNCTION)	38.0	38.0	38.0	12-00	200	1.0	36
PORT ISABEL TURNING BASIN	38.0	38.0	38.0	12-00	1000	0.2	36
CUT OFF CHANNEL	38.0	38.0	38.0	12-00	200	0.9	36
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

SECTION I

Chart 11305

NM N7/02

CORPUS CHRISTI CHANNEL DEPTHS Tabulated from surveys by the Corps of Engineers - Report of December 2001								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Aransas Pass Outer Bar	49	49	49	48	2-01	700-600	2.42	47
Jetty Channel to Cline Point	51	47	47	51	2-01	600	1.11	47-45
Inner Basin of Harbor Island	47	47	47	47	1-01	600-1559	0.5	45
Cline Point to West End Humble Oil Co. Basin	46	47	47	46	5-00	600	0.5	45
Thence to Corpus Christi	38	42	44	39	10-01	600-300	17.9	45
Channel to La Quinta	47	47	47	47	2-01	300-400	4.7	45

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11309

NM 7/02

PORT ARANSAS AND ARANSAS PASS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001			
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
PORT ARANSAS			
ENTRANCE CHANNEL	6.0	100	11-00
TURNING BASIN	7.0	200-400	11-00
ARANSAS PASS			
ARANSAS CHANNEL	10.0	125-175	3-01
TURNING BASIN	14.0	300	3-01
CONNECTING CHANNEL	14.0	125	3-01
CONN BROWN HARBOR	14.0	50-510	3-01

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11309

NM 7/02

CORPUS CHRISTI CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of Channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Naut. Miles)	Depth MLLW (Feet)
ARANSAS PASS OUTER BAR	49.0	49.0	49.0	48.0	2-01	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	51.0	47.0	47.0	51.0	2-01	600	1.11	47-45
INNER BASIN AT HARBOR ISLAND	47.0	47.0	47.0	47.0	1-01	600-1559	0.5	45
CLINE POINT TO WEST END HUMBLE OIL CO. BASIN	46.0	47.0	47.0	46.0	5-00	600	0.5	45
THENCE TO CORPUS CHRISTI	38.0	42.0	44.0	39.0	10-01	600-300	17.9	45
CHANNEL TO LA QUINTA	47.0	47.0	47.0	47.0	2-01	300-400	4.7	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

Chart 11310

NM N7/02

CORPUS CHRISTI CHANNEL DEPTHS Tabulated from surveys by the Corps of Engineers - Report of December 2001								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Aransas Pass Outer Bar	49	49	49	48	2-01	700-600	2.42	47
Jetty Channel to Cline Point	51	47	47	51	2-01	600	1.11	47-45
Inner Basin of Harbor Island	47	47	47	47	1-01	600-1559	0.5	45
Cline Point to West End Humble Oil Co. Basin	46	47	47	46	5-00	600	0.5	45
Thence to Corpus Christi	38	42	44	39	10-01	600-300	17.9	45
Channel to La Quinta	47	47	47	47	2-01	300-400	4.7	45

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11311

NM 7/02

CORPUS CHRISTI CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
W END OF HUMBLE OIL CO. BASIN TO CORPUS CHRISTI	38.0	42.0	44.0	39.0	10-01	600-300	17.9	45
CORPUS CHRISTI TURNING BASIN	47.0	47.0	47.0	45.0	5-01	300-800	1.1	45
INDUSTRIAL CANAL	44.0	45.0	45.0	43.0	5-01	400	0.5	45
AVERY POINT TURNING BASIN	43.0	44.0	44.0	43.0	5-01	400-975	0.4	45
CHEMICAL TURNING BASIN	44.0	44.0	44.0	44.0	5-01	400-1200	0.4	45
TULE LAKE CHANNEL	43.0	44.0	44.0	41.0	5-01	200-400	3.3	45
TULE LAKE TURNING BASIN	44.0	45.0	45.0	42.0	5-01	1200-300	0.4	45
CHANNEL TO VIOLA	44.0	45.0	45.0	42.0	5-01	300-200	1.5	45
VIOLA TURNING BASIN	47.0	47.0	47.0	42.0	5-01	700-900	0.3	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11312

NM 7/02

CORPUS CHRISTI CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)
ARANSAS PASS OUTER BAR	49.0	49.0	49.0	48.0	2-01	700-600	2.42	47
JETTY CHANNEL TO CLINE POINT	51.0	47.0	47.0	51.0	2-01	600	1.11	47-45
INNER BASIN AT HARBOR ISLAND	47.0	47.0	47.0	47.0	1-01	600-1559	0.5	45
CLINE POINT TO WEST END HUMBLE OIL CO. BASIN	46.0	47.0	47.0	46.0	5-00	600	0.5	45
THENCE TO CORPUS CHRISTI	38.0	42.0	44.0	39.0	10-01	600-300	17.9	45
CHANNEL TO LA QUINTA	47.0	47.0	47.0	47.0	2-01	300-400	4.7	45

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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Chart 11318

NM N7/02

CORPUS CHRISTI CHANNEL DEPTHS Tabulated from surveys by the Corps of Engineers - Report of December 2001								
Controlling depths from seaward in feet at mean lower low water (MLLW)						Project Dimensions		
Name of channel	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length (Nautical Miles)	Depth MLLW (Feet)
Avery Point Turning Basin	43	44	44	43	5-01	400-975	0.4	45
Industrial Canal	44	45	45	43	5-01	400	0.5	45
Corpus Christi Turning Basin	47	47	47	45	5-01	300-800	1.1	45
Corpus Christi Channel	38	42	44	39	10-01	600-300	17.9	45
La Quinta Channel	47	47	47	47	2-01	300-400	4.7	45
La Quinta Turning Basin	49	49	49	49	2-01	1200	0.35	45

NOTE: CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11323

NM 7/02

HOUSTON SHIP CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OFFSHORE CHANNEL	41.0	46.0	46.0	40.0	6-01	800-1000	3.3	45
JETTY / ENTRANCE CHANNEL	40.0	44.0	43.0	40.0	11-01	800-1000	9.2	45

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11324

NM 7/02

HOUSTON SHIP CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OFFSHORE CHANNEL	41.0	46.0	46.0	40.0	6-01	800-1000	3.3	45
JETTY / ENTRANCE CHANNEL	40.0	44.0	43.0	40.0	11-01	800-1000	9.2	45
LOWER BAY REACH	38.0	46.0	41.0	30.0	6-01	530	9.6	45
MID BAY REACH	35.0	42.0	40.0	34.0	6-01	400	7.2	40
UPPER BAY REACH	28.0	36.0	40.0	28.0	10-01	530	6.6	45
GALVESTON CHANNEL	26.0	28.0	37.0	28.0	11-01	1125-1075	3.5	40
TEXAS CITY CHANNEL	39.0	43.0	44.0	42.0	9-01	400	5.9	40
TEXAS CITY TURNING BASIN	37.0	39.0	40.0	39.0	9-01	1200	0.5	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

Chart 11325

NM 7/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HOUSTON SHIP CHANNEL: EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	38.0	39.0	39.0	37.0	10-01	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	33.0	39.0	33.0	21.0	6-01	400-300	4.70	40
GREENS BAYOU CHANNEL (TO FIRST BEND)	25.0	26.0	30.0	37.0	10-01	500-175	0.34	36
THENCE TO HUNTING BAYOU (UPPER BEND)	39.0	42.0	42.0	40.0	10-01	300	1.91	40
TURNING POINT AT HUNTING BAYOU THENCE TO SOUTHERN PACIFIC SLIP	39.0	42.0	42.0	41.0	6-01	600	0.17	40
TURNING POINT AT SIMS BAYOU THENCE TO HOUSTON TURNING BASIN WHARF 15	40.0	41.0	41.0	37.0	6-01	300	3.04	40
TURNING POINT AT BRADY ISLAND	41.0	42.0	42.0	41.0	6-01	700	0.26	40
HOUSTON TURNING BASIN	37.0	38.0	38.0	37.0	11-01	300	2.69	36
UPPER TURNING BASIN	31.0	33.0	39.0	38.0	6-01	422	0.17	36
	36.0	37.0	37.0	35.0	11-01	250-1000	0.70	36
	35.0	37.0	37.0	38.0	11-01	150	0.23	36

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.
 B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.
 INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS.
 DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE
 CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11327

NM 7/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER BAY REACH	38.0	46.0	41.0	30.0	6-01	530	9.6	45
MID BAY REACH	35.0	42.0	40.0	34.0	6-01	400	7.2	40
UPPER BAY REACH	28.0	36.0	40.0	28.0	10-01	530	6.6	45

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS.
 DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE
 CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11328

NM 7/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
UPPER BAY REACH	28.0	36.0	40.0	28.0	10-01	530	6.6	45
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	23.0	37.0	37.0	25.0	10-01	400-525	4.2	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS.
 DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE
 CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 7/02

Chart 11329

NM 7/02

HOUSTON SHIP CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT).						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	23.0	37.0	37.0	25.0	10-01	400-525	4.20	40
EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	38.0	39.0	39.0	37.0	10-01	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	33.0	39.0	33.0	21.0	6-01	400-300	4.70	40

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.
 B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11342

NM 7/02

SABINE PASS - SABINE - NECHES CANAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE PASS:								
OUTER BAR CHANNEL	42	42	42	42	6-01	800	3.0	42
JETTY CHANNEL	39	42	42	35	10-01	800-500	3.5	40
PASS CHANNEL	21	26	39	24	10-01	500-1150	4.9	40
ANCHORAGE BASIN	32	19	13	6	6-01	1500	0.5	40
PORT ARTHUR SHIP CANAL	36	40	39	33	6-01	500	4.8	40
JUNCTION PORT ARTHUR- SABINE NECHES CANALS	21	31	26	25	11-01	400-1200	1.1	40
ENTRANCE TO PORT ARTHUR TURNING BASINS	31	35	36	33	6-01	282-735	0.2	40
EAST TURNING BASIN	35	36	36	37	6-01	370-547	0.3	40
WEST TURNING BASIN	34	35	37	36	6-01	350-735	0.3	40
CHANNEL CONNECTING WEST BASIN AND TAYLOR BAYOU TURNING BASIN	38	38	37	35	6-01	200-350	0.5	40
TAYLOR BAYOU TURNING BASIN	37	39	40	35	6-01	90-1233	0.6	40
SABINE-NECHES CANAL: PORT ARTHUR TO NECHES RIVER	26	34	34	25	6-01	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	28	27	26	10-01	200	3.9	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 7/02

Chart 11343

NM 7/02

SABINE AND NECHES RIVERS CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	26	34	34	25	6-01	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	28	27	26	10-01	200	3.9	30
NECHES RIVER:								
MOUTH TO SMITH BLUFF	29	33	35	33	6-01	400	8.3	40
TURNING BASIN AT DEER BAYOU	40	39	38	36	6-01	700	0.2	40
TURNING BASIN AT SMITHS BLUFF	40	39	35	34	6-01	1400-400	0.2	40
SMITH BLUFF TO BEAUMONT	31	39	38	32	6-01	400	7.5	40
TURNING BASIN (30°02'12"N, 94°01'58"W)	33	39	40	37	6-01	400-1306	0.2	40
CHANNEL EXTENSION	33	35	32	28	6-01	350	0.2	36
MANEUVERING AREA (30°04'44"N, 94°05'05"W)	31	39	39	35	6-01	400-1000	0.6	40
BEAUMONT TURNING BASIN	37	37	38	37	6-01	400-535	0.2	34
TURNING BASIN EXTENSION	32	35	33	29	6-01	300	0.2	34
THENCE TO TRINITY INDUSTRIES	19	23	22	20	6-01	200	0.6	30
SABINE RIVER:								
MOUTH TO ORANGE MUNICIPAL SLIP	26	29	30	26	11-01	200	6.6	30
ORANGE TURNING BASIN	26	26	29	28	11-01	200 - 1400	0.6	30
ORANGE MUNICIPAL SLIP	26	30	24	23	11-01	150-200	0.5	30
ORANGE MUNICIPAL SLIP TO OLD HIGHWAY BRIDGE SITE	26	29	30	29	11-01	200	2.2	30
CHANNEL AROUND ORANGE HARBOR ISLAND	13	16	20	18	11-01	150-200	1.6	25
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12273

NM 7/02

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001								
* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)	
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	38.3	39.3	38.6	7-01	400	1.68	35	
SOUTH END OF POOLES ISLAND TO WORTON POINT	38.4	38.1	37.1	7-01	400	4.16	35	
WORTON PT. TO HOWELL PT.	37.0	38.3	35.4	6-01	400	4.84	35	
HOWELL PT. TO GROVE PT.	38.7	38.4	35.1	6-01	400	3.37	35	
GROVE PT. TO TURKEY PT.	33.2	37.1	34.0	4-01	400	3.40	35	
TURKEY PT. TO OLD TOWN POINT WHARF	36.8	36.1	34.2	4-01	400	5.45	35	
OLD TOWN PT. WHARF TO COURTHOUSE PT.	35.0	35.4	34.9	4-01	400	1.63	35	
COURTHOUSE PT. TO CHESAPEAKE CITY BRIDGE	30.3	31.9	31.3	6-01	400	3.69	35	
CHESAPEAKE CITY BRIDGE TO BETHEL	33.3	33.5	32.9	7-01	400	1.51	35	
* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS IN NAUTICAL MILES.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

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Chart 12274

NM 7/02

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001							
* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	38.3	39.3	38.6	7-01	400	1.68	35
SOUTH END OF POOLES ISLAND TO WORTON POINT	38.4	38.1	37.1	7-01	400	4.16	35
WORTON PT. TO HOWELL PT.	37.0	38.3	35.4	6-01	400	4.84	35
HOWELL PT. TO GROVE PT.	38.7	38.4	35.1	6-01	400	3.37	35
GROVE PT. TO TURKEY PT.	33.2	37.1	34.0	4-01	400	3.40	35
TURKEY PT. TO OLD TOWN POINT WHARF	36.8	36.1	34.2	4-01	400	5.45	35
OLD TOWN PT. WHARF TO COURTHOUSE PT.	35.0	35.4	34.9	4-01	400	1.63	35
COURTHOUSE PT. TO CHESAPEAKE CITY BRIDGE	30.3	31.9	31.3	6-01	400	3.69	35
CHESAPEAKE CITY BRIDGE TO BETHEL	33.3	33.5	32.9	7-01	400	1.51	35

* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS IN NAUTICAL MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12277

NM 7/02

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS							
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001							
* SEE FOOTNOTE					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)
TURKEY POINT TO OLD TOWN POINT WHARF	36.8	36.1	34.2	4-01	400	5.45	35
OLD TOWN POINT WHARF TO COURTHOUSE POINT	35.0	35.4	34.9	4-01	400	1.63	35
COURTHOUSE PT. TO CHESAPEAKE CITY BRIDGE	30.3	31.9	31.3	6-01	400	3.69	35
CHESAPEAKE CITY BRIDGE TO BETHEL	33.3	33.5	32.9	7-01	400	1.51	35
BETHEL TO GUTHRIE BRANCH	30.4	33.5	34.4	6-01	400	1.13	35
GUTHRIE BRANCH TO SUMMIT BRIDGE	38.4	31.4	29.9	7-01	400	1.02	35
SUMMIT BRIDGE TO CONRAIL BRIDGE	39.0	34.9	33.3	3-01	400	1.65	35
CONRAIL BRIDGE TO ST. GEORGES BRIDGE	32.7	36.9	35.4	4-01	400	2.57	35
ST. GEORGES BRIDGE TO BIDDLE POINT	34.7	35.2	33.1	4-01	400	1.58	35
BIDDLE POINT TO REEDY POINT BRIDGE	34.5	34.6	35.4	4-01	400	1.68	35
REEDY POINT BRIDGE TO DELAWARE RIVER	34.2	33.8	33.9	4-01	400	1.63	35

* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS ARE GIVEN IN NAUTICAL MILES UNLESS OTHERWISE INDICATED.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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Chart 12278

NM 7/02

CHESAPEAKE AND DELAWARE CANAL CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2001								
* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH (FEET)	
3400 YARDS SOUTH OF POOLES ISLAND TO THE SOUTH END OF POOLES ISLAND	38.3	39.3	38.6	7-01	400	1.68	35	
SOUTH END OF POOLES ISLAND TO WORTON POINT	38.4	38.1	37.1	7-01	400	4.16	35	
WORTON PT. TO HOWELL PT.	37.0	38.3	35.4	6-01	400	4.84	35	

* CONTROLLING CHANNEL DEPTHS IN FEET AT LOCAL MEAN LOWER LOW WATER ENTERING FROM CHESAPEAKE BAY. PROJECT LENGTHS IN NAUTICAL MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327

NM 7/02

NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO JUN - JUL 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHAN. (EAST) A	38.3	39.3	37.8	31.4	6,7-01	800	3.5	35
SANDY HOOK CHANNEL	20.3	39.8	36.0	33.1	6,7-01	800	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	29.0	30.1	30.2	26.7	3,4-01	1000	2.7	30
NORTH CHANNEL	28.4	29.0	29.1	28.3	3,4-01	1000	1.8	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
KEYPORT HARBOR CHANNEL	4.5	6.6	6.6	5.8	4,5-99	200	0.9	8
RARITAN BAY EAST REACH	35.3	37.6	36.8	32.7	7-99	600	4.0	35
RARITAN BAY WEST REACH	33.8	38.7	38.9	29.7	7-99	600	2.4	35
SEGUINE POINT BEND	33.1	34.8	37.8	23.7	7-99;4-01	600-800	1.2	35
RED BANK REACH	33.4	40.8	40.8	36.5	4-01	600	1.2	35
WARD POINT BEND (EAST)	33.0	38.5	37.0	29.4	4-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.5	33.8	32.4	32.1	4-01	600-800	0.8	35
RARITAN RIVER CUT OFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	23.6	22.7	22.5	21.9	3-93	400	0.9	30
GREAT BEDS REACH	12.4	16.0	17.9	16.2	4-99	300	0.6	25
SOUTH AMBOY REACH	18.6	21.2	18.0	16.0	4-99	300	1.2	25

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12401

NM 7/02

NEW YORK HARBOR-LOWER BAY-CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO JUN - JUL 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHAN. (EAST)A	38.3	39.3	37.8	31.4	6,7-01	A800	3.5	A35
SANDY HOOK CHANNEL	20.3	39.8	36.0	33.1	6,7-01	800	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	29.0	30.1	30.2	26.7	3,4-01	1000	2.7	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
RARITAN BAY EAST REACH	35.3	37.6	36.8	32.7	7-99	600	4.0	35
RARITAN BAY WEST REACH	33.8	38.7	38.9	29.7	7-99	600	2.4	35

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.
B. DEPTH FROM NOS FIELD SURVEY AT 40°28'57"N, 073°59'36"W REPORTED 10/22/97
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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NM 7/02

Chart 14832

NM 7/02

BUFFALO HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO JUN 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	27.9	27.3	25.6	22.6	6,10-00	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	15.5	22.6	23.5	24.4	6,10-00	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.8	20.1	21.0	21.4	6,10-00	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	20.4	24.3	24.9	A24.0	6,10,12-00	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	B18.6	21.2	21.8	21.0	6,12-00	1175-1350	.91	23
BUFFALO RIVER ENTRANCE CHANNEL	C16.0	D19.8	E18.5	F18.3	6-01	220-1625	.98	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	19.5	21.0	19.0	G16.3	10,11-00	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	14.4	20.8	20.3	14.1	10,11-00	200-350	3.05	21
THENCE TO BUOY 12	15.0	18.7	17.4	12.2	10,11-00	200-400	1.70	21
A. SHOALING TO 15.5 FEET AT 42°52'04.9"N-78°53'01.4"W B. SHOALING TO 10.7 FEET IN OUTSIDE 70 FEET OF QUARTER C. SHOALING TO 10.8 FEET IN OUTSIDE 50 FEET OF QUARTER FROM 42°52'40.7"N-78°52'52.7"W TO 42°52'30.3"N-78°52'42.9"W D. SHOALING TO 8.7 FEET WITHIN 100 FEET OF END OF REACH. E. SHOALING TO 16.8 FEET WITHIN 200 FEET OF END OF REACH. F. SHOALING TO 13.3 FEET OUTSIDE 50 FEET OF QUARTER. G. SHOALING TO 9.6 FEET IN OUTSIDE 50 FEET OF QUARTER. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 14833

NM 7/02

BUFFALO HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2001 AND SURVEYS TO JUN 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
BUFFALO HARBOR:								
SOUTH ENTRANCE INNER CHANNEL	27.9	27.3	25.6	22.6	6,10-00	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	15.5	22.6	23.5	24.4	6,10-00	1130-1425	.76	28
OUTER HARBOR TURNING BASIN	18.8	20.1	21.0	21.4	6,10-00	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	20.4	24.3	24.9	A24.0	6,10,12-00	500-1600	2.12	27
OUTER HARBOR NORTHERN CHANNEL	B18.6	21.2	21.8	21.0	6,12-00	1175-1350	.91	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	C16.0	D19.8	E18.5	F18.3	6-01	220-1625	.98	23
BUFFALO RIVER	G12.8	H17.2	I18.0	J12.8	6-01	100-700	5.27	23
BUFFALO SHIP CANAL	17.5	20.3	19.0	K18.3	6-01	125	1.02	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	19.5	21.0	19.0	L16.3	10,11-00	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	14.4	20.8	20.3	14.1	10,11-00	200-350	3.05	21
A. SHOALING TO 15.5 FEET AT 42°52'04.9"N-78°53'01.4"W B. SHOALING TO 10.7 FEET IN OUTSIDE 70 FEET OF QUARTER C. SHOALING TO 10.8 FEET IN OUTSIDE 50 FEET OF QUARTER FROM 42°52'40.7"N-78°52'52.7"W TO 42°52'30.3"N-78°52'42.9"W D. SHOALING TO 8.7 FEET WITHIN 100 FEET OF END OF REACH. E. SHOALING TO 16.8 FEET WITHIN 200 FEET OF END OF REACH. F. SHOALING TO 13.3 FEET OUTSIDE 50 FEET OF QUARTER. G. SHOALING TO 7.9 FEET LAST 200 FEET OF REACH. H. SHOALING TO 14.6 FEET WITHIN 150 FEET OF POINT AT 42°51'48.9"N - 78°51'38.0"W. SHOALING TO 11.0 FEET LAST 300 FEET OF REACH. I. SHOALING TO 13.2 FEET WITHIN 300 FEET OF POINT AT 42°51'26.9"N-78°51'10.1"W AND WITHIN 100 FEET OF BRIDGE ABUTMENTS. SHOALING TO 15.5 FEET LAST 5000 FEET OF REACH AND 8.2 FEET LAST 200 FEET. J. SHOALING TO 8.3 FEET WITHIN 200 FEET OF BRIDGE ABUTMENTS. SHOALING TO 3.2 FEET WITHIN 300 FEET OF POINT AT 42°51'38.0"N - 78°50'42.7"W AND WITHIN 100 FEET OF END OF REACH. K. SHOALING TO 8.2 FEET WITHIN 125 FEET OF END OF REACH. L. SHOALING TO 9.6 FEET IN OUTSIDE 50 FEET OF QUARTER. NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

NM 7/02

Chart 14839

NM 7/02

CLEVELAND HARBOR CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2001 AND REPORTS TO MAY 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT GREAT LAKES LOW WATER DATUM (LWD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH LWD (FEET)
LAKE APPROACH CHANNEL	28.4	31.7	30.4	26.1	4,5,6-00	600-750	0.22	29
ENTRANCE CHANNEL	27.7	28.4	29.4	26.1	4,5,6-00	225-750	0.22	28
CUYAHOGA RIVER								
PIER RANGE	A19.3	25.1	28.3	21.1	3-01	230	0.30	27
THENCE TO LORAIN								
CARNEGIE VIADUCT BRIDGE	B14.5	20.6	22.0	9.1	3-01	100-700	2.69	23
THENCE TO END OF PROJECT	C10.5	D20.7	E17.1	F11.4	3-01	110-400	3.11	23
OLD RIVER								
FROM CUYAHOGA RIVER								
TO END OF PROJECT	17.7	23.4	22.4	G14.5	3-01	125-200	1.10	27
EAST BASIN								
AIRPORT RANGE	H20.5	23.4	23.2	18.9	4,5,6-00	500	3.11	25
TURNING BASIN	22.7	22.9	22.8	22.4	4,5,6-00	400-1600	0.33	25
EASTERN SECTION	I19.0	22.6	22.9	22.2	4,5,6-00	1250-1540	0.72	27
WESTERN SECTION	J21.6	23.6	28.2	23.2	4,5,6-00	1300-1540	0.28	28
WEST BASIN	K24.4	L23.6	M24.0	N21.1	4,5,6-00	1150-1570	0.91	28

A. EXCEPT FOR SHOALING TO 14.1 FEET AT 41°30'00.6"N 081°42'31.4"W UNDER RAILROAD BRIDGE.
 B. EXCEPT FOR SHOALING TO 11.9 FEET AT 41°29'22.7"N 081°41'36.1"W.
 C. EXCEPT FOR SHOALING TO 4.0 FEET AT 41°29'22.30"N 081°41'00.34"W AND TO 7.3 FT AT 41°29'21.8"N 081°41'36.0"W UNDER THE LORAIN CARNEGIE VIADUCT BRIDGE.
 D. EXCEPT FOR SHOALING TO 13.2 FEET IN LAST 100 FEET OF QUARTER.
 E. EXCEPT FOR SHOALING TO 12.9 FEET IN LAST 100 FEET OF QUARTER.
 F. EXCEPT FOR SHOALING TO 5.3 FEET IN LAST 800 FEET OF QUARTER AND 8.2 FT AT 41°29'10.0"N 081°40'46.8"W.
 G. EXCEPT FOR SHOALING TO 8.3 FEET AT 41°29'51.2"N 081°42'43.9"W.
 H. EXCEPT FOR SHOALING TO 15.7 FEET AT 41°31'52.2"N 081°40'02.1"W AND 16.9 FEET AT 41°31'08"N 081°41'19.7"W.
 I. EXCEPT FOR SHOALING TO 12.7 FEET AT 41°30'36.0"N 081°42'29.8"W.
 J. EXCEPT FOR SHOALING TO 20.9 FEET AT 41°30'18.5"N 081°42'33.3"W.
 K. EXCEPT FOR SHOALING TO 21.0 FEET IN WESTERN 800 FEET OF PROJECT.
 L. EXCEPT FOR SHOALING TO 18.7 FEET IN WESTERN 800 FEET OF PROJECT.
 M. EXCEPT FOR SHOALING TO 16.1 FEET IN WESTERN 950 FEET OF PROJECT.
 N. EXCEPT FOR SHOALING TO 14.1 FEET IN WESTERN 300 FEET OF PROJECT.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18523

NM 7/02

COLUMBIA RIVER CHANNEL DEPTHS								
MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	43	41	40	37	8 - 01	600	2.2	40
PILLAR ROCK LOWER RANGE	38	41	39	39	7, 8 - 01	600	3.0	40
PILLAR ROCK UPPER RANGE	38	43	40	36	7, 8 - 01	600	1.9	40
WELCH ISLAND REACH	39	44	44	35	8 - 01	600	3.2	40
SKAMOKAWA CHANNEL	39	40	40	37	7, 8 - 01	600	3.3	40
STEAMBOAT REACH	48	47	44	40	7 - 01	600	1.4	40
PUGET ISLAND RANGE AND TURN	34	40	41	39	7 - 01	600	3.5	40
WAUNA RANGE	37	40	42	40	7 - 01	600	2.2	40
DRISCOLL RANGE	37	40	38	41	7 - 01	600	1.7	40
WESTPORT TURN AND RANGE	37	40	40	40	7 - 01	600	2.0	40
WESTPORT CHANNEL	38	40	40	38	7 - 01	600	2.4	40
EUREKA LOWER CHANNEL	48	46	45	46	7 - 01	600	2.1	40
EUREKA UPPER CHANNEL	40	45	43	44	7, 10 - 01	600	0.8	40
OAK POINT CHANNEL	47	45	44	44	7, 10 - 01	600	2.4	40
GULL I TURN AND CHANNEL	46	44	44	41	10 - 01	600	2.2	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 7/02

Chart 18524

NM 7/02

COLUMBIA RIVER CHANNEL DEPTHS GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
GULL I TURN AND CHANNEL	46	44	44	41	10-01	600	2.2	40
STELLA RANGE	39	41	42	38	10-01	600	2.8	40
FISHER I CHANNEL	40	44	41	42	10-01	600	0.9	40
WALKER I CHANNEL	40	43	43	41	10-01	600	1.5	40
BARLOW PT. CHANNEL	45	46	46	42	10-01	600	1.3	40
SLAUGHTERS CHANNEL	42	45	42	40	9,10-01	600	2.5	40
SLAUGHTERS TURN AND CHANNEL OPPOSITE THE TURNING BASIN	40	41	40	41	9-01	600	1.7	40
COTTONWOOD ISLAND LOWER RANGE	38	41	42	40	10-01	600	1.7	40
COTTONWOOD ISLAND TURN	42	43	42	41	10-01	600	2.7	40
COTTONWOOD ISLAND UPPER RANGE AND TURN	42	45	45	43	10-01	600	1.6	40
KALAMA LOWER RANGE	43	41	44	39	10-01	600	1.8	40
KALAMA UPPER RANGE	40	40	40	40	10-01	600	2.2	40
BYBEE LEDGE CHANNEL	38	41	43	42	10-01	600	2.1	40
MARTIN ISLAND CHANNEL	41	42	41	40	9,10-01	600	2.1	40
MARTIN ISLAND RANGE	43	44	45	41	9-01	600	1.4	40
COLUMBIA CITY CHANNEL	41	43	44	43	9-01	600	1.2	40
ST. HELENS RANGE	41	42	41	41	9-01	600	2.0	40
ST. HELENS TURN	45	45	44	39	9-01	600	1.7	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18525

NM 7/02

COLUMBIA RIVER CHANNEL DEPTHS SAINT HELENS TURN TO TOMAHAWK BAR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ST. HELENS TURN	45	45	44	39	9-01	600	1.7	40
WARRIOR ROCK RANGE	40	41	42	41	8-01	600	1.3	40
DUCK CLUB TURN	42	42	42	42	8-01	600	1.4	40
HENRICI RANGE	42	42	40	39	6,8-01	600	2.6	40
FALES CHANNEL	42	42	40	40	6-01	600	1.1	40
KNAPP POINT CHANNEL	41	41	41	39	6-01	600	1.8	40
WILLOW LOWER RANGE	40	42	42	41	6-01	600	2.1	40
WILLOW UPPER RANGE	44	44	44	45	6-01	600	1.1	40
MORGAN TURN	44	45	47	50	6-01	600	1.0	40
MORGAN CHANNEL	45	46	42	42	6-01	600	1.5	40
VANCOUVER LOWER CHANNEL	47	48	52	54	7-01	500	1.0	40
VANCOUVER RANGE	40	40	40	39	7-01	500	1.3	40
VANCOUVER UPPER CHANNEL	42	41	41	39	7-01	500	0.9	40
VANCOUVER LOWER TURNING BASIN	34	37	40	41	7-01	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	27	27	29	7-01	800	0.9	35
TOMAHAWK BAR	18	18	17	17	3,7-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 7/02

Chart 18526

NM 7/02

COLUMBIA RIVER CHANNEL DEPTHS MORGAN CHANNEL TO TOMAHAWK BAR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2001								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	45	46	42	42	6-01	600	1.5	40
VANCOUVER LOWER CHANNEL	47	48	52	54	7-01	500	1.0	40
VANCOUVER RANGE	40	40	40	39	7-01	500	1.3	40
VANCOUVER UPPER CHANNEL	42	41	41	39	7-01	500	0.9	40
VANCOUVER LOWER TURNING BASIN	34	37	40	41	7-01	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	27	27	29	7-01	800	0.9	35
TOMAHAWK BAR	18	18	17	17	3,7-01	300	3.7	27

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18584

NM 7/02

UMPQUA RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEPT 2001 AND SURVEYS TO OCT 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL TO LT. 21	18	19	19	5-00; 2, 8, 10-01	200	7.0	26-22
LT. 21 TO REEDSPORT	16	19	18	10-01	200	2.7	22
REEDSPORT TURNING BASIN	21	23	23	2, 10-01	600	0.2	22
LT. 21 TO GARDINER	12	13	11	10-01	200	1.15	22
GARDINER TURNING BASIN	5	2	2	10-01	500	0.2	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18587

NM 7/02

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2001							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE RANGE	39	40	40	8,10-01	---	1.9	47-37
ENTRANCE RANGE AND TURN	38	44	32	10-01	300-1050	0.5	37
INSIDE RANGE	36	37	36	10-01	300	0.6	37
COOS BAY RANGE	36	37	36	10-01	300	1.6	37
EMPIRE RANGE	36	37	39	10-01	300	1.3	37
LOWER JARVIS RANGE	37	36	35	10-01	300	0.8	37
JARVIS TURN	35	39	37	10-01	300	0.5	37
UPPER JARVIS RANGE	32	34	34	10-01	300	1.9	37
NORTH BEND LOWER RANGE	35	37	37	10-01	400	0.4	37
NORTH BEND RANGE	31	37	35	8,10-01	400	0.9	37
NORTH BEND UPPER RANGE	37	38	36	8-01	400	0.6	37
LOWER TURNING BASIN	36	39	35	5-01	400-800	0.3	37
FERNDALE LOWER RANGE	39	39	37	8-01	400	0.4	37
FERNDALE TURN	32	39	38	8-01	400	0.2	37
FERNDALE UPPER RANGE	13	37	38	8-01	400	0.7	37
MARSHFIELD RANGE	36	36	33	8-01	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	35	36	34	8-01	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION