Chart 11344 NM 24/04

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2004

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)
BAR CHANNEL	36.0	41.0	48.0	27.0	3-04	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	32.0	46.0	47.0	47.0	12-03;3-04	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	27.0	40.0	41.0	35.0	3-04	400	6.0	40

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

Chart 11347 (Side A) NM 24/04

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2004

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)
BAR CHANNEL	36.0	41.0	48.0	27.0	3-04	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	32.0	46.0	47.0	47.0	12-03;3-04	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	27.0	40.0	41.0	35.0	3-04	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'13.0"W)	28.0	35.0	38.0	31.0	3-04	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	32.0	33.0	38.0	30.0	8;12-03	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	32.0	37.0	38.0	32.0	12-03;1-04	400	5.0	40
THENCE TO 210 BRIDGE	33.0	35.0	36.0	32.0	1-04	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'00.0"N, 93°15'08.0"W)	33.0	36.0	35.0	34.0	1-04	400	2.0	40

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

Chart 11347 (Side B, Inset 1) NM 24/04

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 2004

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)
BAR CHANNEL	35.0	41.0	40.0	27.0	3-04	800	19.1	42
JETTY CHANNEL TO (29°46'08.0"N, 93°20'40.0"W)	32.0	46.0	47.0	47.0	12-03;3-04	400	1.4	40
THENCE TO A POINT (29°52'08.0"N, 93°20'43.0"W)	27.0	40.0	41.0	35.0	3-04	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	28.0	35.0	36.0	31.0	3-04	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'35.0"W)	32.0	38.0	38.0	30.0	8,12-03	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	32.0	37.0	36.0	32.0	12-03;1-04	400	5.0	40
THENCE TO 210 BRIDGE	33.0	35.0	35.0	32.0	1-04	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	33.0	39.0	35.0	34.0	1-04	400	2.0	40

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

Chart 11378 (Side A) NM 24/04

PENSACOLA HARBOR AND BAYOU CHICO CHANNELS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORTS OF OCT 2003

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)
PENSACOLA HARBOR							
BAY CHANNEL	33.0	33.0	32.8	09-03	300	2.87	33
WEST CHANNEL	27.8	28.4	27.7	10-03	300	1.13	33
EAST CHANNEL	29.4	31.7	29.1	10-03	300	0.8	33
INNER HARBOR CHANNEL	29.3	28.7	25.5	10-03	500	0.65	33
BAYOU CHICO CHANNELS							
ENTRANCE CHANNEL	13.1	14.9	11.7	11-02	100	0.7	15
INNER CHANNEL	3.7	9.0	3.9	11-02	75	0.86	14
TURNING BASIN	7.3	9.2	7.1	11-02	500	-	14

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

Chart 11378 (Side A) NM 24/04

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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 CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
GAUCUS CHANNEL	39.9	41.1	41.1	40.5	02-04	A500	3.0	A35
BARRANCAS RANGE	47.5	48.3	48.3	47.6	02-04	A500	0.77	A35
PICKENS CHANNEL	43.3	43.3	43.3	45.8	02-04	A500	0.84	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.

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

Chart 11382 NM 24/04

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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 CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	39.6	41.1	41.1	40.3	02-04	A500	3.0	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11383 NM 24/04

PENSACOLA HARBOR AND BAYOU CHICO CHANNELS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2003

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)
PENSACOLA HARBOR							
BAY CHANNEL	33.0	33.3	32.8	09-03	300	2.87	33
WEST CHANNEL	27.6	28.4	27.7	10-03	300	1.13	33
EAST CHANNEL	29.4	31.7	29.1	10-03	300	0.8	33
INNER HARBOR CHANNEL	29.3	28.7	26.5	10-03	500	0.65	33
BAYOU CHICO CHANNELS							
ENTRANCE CHANNEL	13.1	14.9	11.7	11-02	100	0.7	15
INNER CHANNEL	3.7	9.0	3.9	11-02	75	0.96	14
TURNING BASIN	7.3	9.2	7.1	11-02	500	-	14

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

Chart 11383 NM 24/04

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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 CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	39.6	41.1	41.1	40.3	02-04	A500	3.0	A35
BARRANCAS RANGE	47.3	48.3	48.3	47.8	02-04	A500	0.77	A35
PICKENS CHANNEL	43.3	43.3	43.3	43.8	02-04	A500	0.84	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11384 NM 24/04

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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 CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	39.6	41.1	41.1	40.3	02-04	A500	3.0	A35
BARRANCAS RANGE	47.3	48.3	48.3	47.8	02-04	A500	0.77	A35
PICKENS CHANNEL	43.3	43.3	43.3	43.8	02-04	A500	0.84	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11389 NM 24/04

PORT ST. JOE AND PANAMA CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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)
PORT ST. JOE HARBOR							
ENTRANCE CHANNEL	30.3	30.4	24.5	6-03	300-500	8.0	35-37
NORTH CHANNEL	26.7	27.0	27.1	6-03	300	4.1	35
TURNING BASIN	26.3	26.7	26.4	6-03	850	0.3	32
HARBOR CHANNEL	26.2	26.7	26.8	6-03	250	0.3	35
SOUTH CHANNEL		A			200	1.1	27
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	35.0	35.6	35.0	1-04; 2-04	450-500	2.1	34-32

A. NOT MAINTAINED

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

Chart 11390 (Side A) NM 24/04

PANAMA CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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)
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	35.0	35.6	35.0	1-04; 2-04	450-500	2.1	34-32

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

Chart 11391 NM 24/04

PANAMA CITY HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004

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)
PANAMA CITY HARBOR							
ENTRANCE CHANNEL	35.0	35.6	35.0	1-04; 2-04	450-500	2.1	34-32

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

Chart 14832 NM 24/04

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MARCH 2004 AND SURVEYS TO NOV 2003

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	26.3	26.0	24.7	21.5	12-01	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	A19.6	23.9	24.1	24.6	12-01, 9-03	1130-1435	.76	26
OUTER HARBOR TURNING BASIN	18.0	19.8	20.7	20.6	12-01	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	19.7	24.0	24.1	22.7	12-01, 9-03	500-1800	2.12	27
OUTER HARBOR NORTHERN CHANNEL	18.2	19.7	21.1	20.9	12-01, 9-03	1175-1350	.91	23
BUFFALO RIVER ENTRANCE CHANNEL	B16.2	19.5	19.9	C18.0	6-03, 11-03	220-1625	.98	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	D17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	E15.3	19.6	20.0	12.1	12-01	200-350	3.05	21
THENCE TO BUOY 12	15.8	18.9	18.1	14.7	12-01	200-400	1.70	21

A. SHOALING TO 13.9 FEET AT 42°49'56.6"N-78°51'54.9"W.
B. SHOALING TO 11.4 FEET IN OUTSIDE 50 FEET OF QUARTER WITHIN 200 FEET OF END OF REACH
C. SHOALING TO 13.9 FEET OUTSIDE 50 FEET OF QUARTER.
D. SHOALING TO 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH.
E. SHOALING TO 12.7 FEET AT 42°55'50.9"N-78°54'07.4"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14833 NM 24/04

BUFFALO HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MARCH 2004 AND SURVEYS TO NOV 2003

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	26.3	26.0	24.7	21.5	12-01	400-1200	.37	29
OUTER HARBOR SOUTHERN CHANNEL	A19.6	23.9	24.1	24.6	12-01, 9-03	1130-1435	.76	26
OUTER HARBOR TURNING BASIN	18.0	19.8	20.7	20.6	12-01	900	.80	23
OUTER HARBOR MIDDLE CHANNEL	19.7	24.0	24.1	22.7	12-01, 9-03	500-1800	2.12	27
OUTER HARBOR NORTHERN CHANNEL	18.2	19.7	21.1	20.9	12-01, 9-03	1175-1350	.91	23
BUFFALO RIVER:								
ENTRANCE CHANNEL	B16.2	19.5	19.9	C18.0	6-03, 11-03	220-1625	.98	23
BUFFALO RIVER	D9.6	E15.6	F14.1	G10.0	6-03, 11-03	100-700	5.27	23
BUFFALO SHIP CANAL	18.1	20.4	20.0	H18.2	6-03, 11-03	125	1.02	23
BLACK ROCK CANAL:								
ENTRANCE CHANNEL	17.9	20.1	17.4	I17.2	12-01	450-1000	.80	21
BLACK ROCK CANAL TO LOCK	J15.3	19.6	20.0	12.1	12-01	200-350	3.05	21

A. SHOALING TO 13.9 FEET AT 42°49'56.6"N-78°51'54.9"W.
B. SHOALING TO 11.4 FEET IN OUTSIDE 50 FEET OF QUARTER WITHIN 200 FEET OF END OF REACH
C. SHOALING TO 13.9 FEET OUTSIDE 50 FEET OF QUARTER.
D. SHOALING TO 6.1 FEET LAST 200 FEET OF REACH AND 9.2 FEET WITHIN 200 FEET OF POINT AT 42°51'45.3"N-78°52'06.8"W.
E. SHOALING TO 9.7 FEET LAST 300 FEET OF REACH
F. SHOALING TO 13.1 FEET WITHIN 300 FEET OF POINT AT 42°51'25.9"N-78°51'08.1"W AND 10.5 FEET WITHIN 100 FEET OF BRIDGE ABUTMENTS.
SHOALING TO 10.6 FEET LAST 200 FEET OF REACH
SHOALING TO 11.6 FEET WITHIN 200 FEET OF POINT AT 42°51'24.2"N-78°50'39.9"W
G. SHOALING TO 6.1 FEET WITHIN 300 FEET OF POINT AT 42°51'38.8"N-78°50'42.7"W
SHOALING TO 9.1 FEET POINT AT 42°51'48.76"N-78°50'26.95"W.
H. SHOALING TO 18.6 FEET WITHIN 125 FEET OF END OF REACH.
I. SHOALING TO 6.6 FEET IN OUTSIDE 50 FEET OF QUARTER AND 12.7 FEET WITHIN 200 FEET OF END OF REACH.
J. SHOALING TO 12.7 FEET AT 42°55'50.9"N-78°54'07.6"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 14975 NM 24/04

SUPERIOR HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2003

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)
SUPERIOR ENTRY	A	A	A	A				
1	25.7	31.7	31.7	29.2	8-2003	600-1100	.18	31
2	27.5	30.6	31.7	28.4	8-2003	415-1100	.15	30
3	30.0	30.7	30.2	26.7	7-2003	415	.08	29
4	28.7	30.4	28.1	25.5	7-2003	415-430	.08	28
5	24.9	28.6	30.4	25.1	7-2003	430-640	.08	27
SUPERIOR HARBOR BASIN	26.6	24.4	23.1	23.9	7-2003	600-2300	1.21	27
ALLOUEZ BAY CHANNEL	21.8	23.8	23.3	23.6	7-2003	400-600	.44	27
SUPERIOR FRONT CHANNEL	25.2	27.5	26.6	25.5	6,7-2003	600	2.32	27
EAST GATE BASIN (SOUTH)	26.0	26.9	26.2	26.4	5,6-2003	600-3200	.57	27

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.

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

Chart 14975 NM 24/04

DULUTH HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2003

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)
DULUTH ENTRY	A	A	A	A				
1	26.5	31.6	31.4	29.6	5-2003	245-1000	.13	32
2	28.1	33.6	33.4	29.6	5-2003	245	.08	31
3	30.3	32.6	32.6	31.1	5-2003	245	.07	30
4	31.6	31.6	31.6	30.3	5-2003	245	.07	29
5	31.0	32.4	32.7	24.5	5-2003	245-480	.07	28
DULUTH HARBOR BASIN								
NORTHERN SECTION	25.5	27.5	28.6	22.4	5-2003	1100-2700	.64	28
SOUTHERN SECTION	25.1	24.9	26.2	25.5	5-2003	1200-2700	.91	27
EAST GATE BASIN (NORTH)	25.9	26.7	27.7	22.8	5-2003	1500-3300	.33	27
WEST GATE BASIN	24.8	26.0	26.6	24.5	7-2003	400-880	.66	27
HOWARDS BAY	21.6	23.1	24.0	19.4	8-2003	100-750	.99	27
NORTH CHANNEL								
EASTERN SECTION	19.9	19.5	19.3	B14.6	7,8-2003	400	1.66	27
WESTERN SECTION	19.4	20.4	20.2	20.3	5-2003	400	.59	21
21ST AVE WEST CHANNEL	C6.3	C21.1	C21.1	C16.6	6-71;10-91	300	.33	30
SOUTH CHANNEL								
EASTERN SECTION	21.5	23.3	24.6	25.7	8-2003	400-600	.74	27
WESTERN SECTION	23.0	22.8	23.3	22.8	8-2003	400	.83	23
CROSS CHANNEL	20.2	27.5	29.1	19.4	8-2003	1300	.33	27
UPPER CHANNEL	20.4	23.8	20.6	19.4	9-2003	500	1.00	23
MINNESOTA CHANNEL								
EASTERN SECTION	D19.8	22.3	21.4	E18.6	9,10-2003	600	.95	23
WESTERN SECTION	7.6	15.3	10.4	F 7.8	10-2000;10-2003	300	2.39	20

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.
B. SHOALING TO UNKNOWN DEPTH BEHIND THE 12 FT CURVE FROM 46°48'52.5"N - 92°06'08.8"W TO 46°48'07.2"N - 92°06'18.6"W
C. RECENT SURVEYS NOT AVAILABLE FOR 21ST AVE WEST CHANNEL.
D. SHOALING TO 4.9 FT WITHIN 150 FT FROM 46°43'13.01"N - 92°08'34.57"W.
E. SHOALING TO 9.4 FT IN THE OUTSIDE HALF OF THE QUARTER FOR THE NORTHERN 900 FT OF THE REACH.
F. SHOALING TO 2.2 FT IN THE OUTSIDE HALF OF THE QUARTER.

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