Chart 14839 NM 24/14

CLEVELAND HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2013 AND REPORTS TO SEPT 2013

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 (FEET)	DEPTH LWD (FEET)
HARBOR ENTRANCE	26.8	29.0	28.6	23.4	8-13	600-700	1150	29
BASINS & CUYAHOGA RIVER ENTRANCE	24.5	28.0	28.0	24.2	8-13	230-760	1200	28
CUYAHOGA RIVER								
ENTRANCE TO BRIDGE 1 (J)	18.5	24.9	24.9	19.0	3-11	230	1700	27
BRIDGE 1 TO BRIGE 6 (B)	10.1	19.3	19.3	14.7	3-11	250-300	6300	23
BRIDGE 6 TO BRIDGE 12 (C)	9.7	12.9	12.9	8.1	3-11	180-700	5500	23
BRIDGE 12 TO BRIDGE 17 (D)	10.1	18.5	18.5	6.6	3-11	120-400	6400	14.2
BRIDGE 17 TO END OF TURNING BASIN (E)	13.9	18.4	18.4	13.1	3-11	110-250	4000	23
END OF TURNING BASIN TO BRIDGE 23 (F)	8.0	6.7	6.7	6.3	3-11	110-200	5200	23
UPSTREAM TURNING BASIN (G)	11.6	12.5	12.5	12.8	3-11	0-600	1000	18
OLD RIVER								
OLD RIVER (A)	11.2	13.7	13.7	13.0	3-11	120-125	5300	27
OLD RIVER UPPER END (H)	10.1	7.8	7.8	7.7	3-11	120	710	27
EAST BASIN								
EAST SECTION (A.)	17.4	22.3	22.2	14.0	8-13	500	14600	25
NICHOLSON APPROACH	22.7	22.7	22.5	22.5	8-13	400-1600	1300	25
MIDDLE SECTION (B.)	13.4	20.6	21.2	19.9	8-13	1270-1560	3800	27
WEST SECTION	17.2	23.3	26.7	17.9	8-13	1560	1300	28
WEST BASIN, MAIN SECTION	17.0	24.2	22.9	13.7	8-13	800-1560	4400	28
WESTERLY 400 FEET	15.7	14.0	12.8	11.7	8-13	330-800	400	28

A. TRAFFIC FLOWS IN EAST BASIN EAST SECTION FROM EAST TO WEST.
B. TRAFFIC FLOWS IN EAST BASIN MIDDLE SECTION FROM WEST TO EAST.

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

Chart 14975 (A) NM 24/14

DULUTH HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2013

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	31	32	29	6-2013	245-1000	.13	32
2	32	34	33	30	6-2013	245	.08	31
3	29	32	31	32	6-2013	245	.07	30
4	32	31	31	32	6-2013	245	.07	29
5	27	31	31	27	6-2013	245-480	.07	28
DULUTH HARBOR BASIN								
NORTHERN SECTION	25	27	28	25	6, 9-2013	1100-2700	.64	28
SOUTHERN SECTION	24	25	27	22	6, 7-2013	1200-2700	.91	27
EAST GATE BASIN (NORTH)	26	26	25	22	6, 7-2013	1500-3300	.33	27
WEST GATE BASIN	24	27	27	B24	7-2013	400-850	.66	27
HOWARDS BAY	22	23	23	21	8-2013	100-750	.99	27
NORTH CHANNEL								
EASTERN SECTION	20	21	21	C14	8, 9-2011; 7-2013	400	1.66	27
WESTERN SECTION	19	20	20	18	11-2011 ; 7-2013	400	.59	21
21ST AVE WEST CHANNEL	7	11	19	20	8-2011	200	.33	20
SOUTH CHANNEL								
EASTERN SECTION	22	21	20	26	7-2013	400-800	.74	27
WESTERN SECTION	21	23	22	20	7-2013	400	.83	23
CROSS CHANNEL	20	27	27	17	9-2011 ; 7-2013	1300	.33	27
UPPER CHANNEL	18	23	21	19	7-2013	500	1.00	23
MINNESOTA CHANNEL								
EASTERN SECTION	10	20	22	10	7, 8, 9-2013	600	.95	23
WESTERN SECTION	D16	14	10	E9	9-2013	200	2.39	20

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.
B. SHOALING TO 17 FT AT 46°45'00.3"N - 92°06'06.4"W
C. SHOALING TO 4 FT IN THE OUTSIDE HALF OF THE QUARTER FROM 46°45'02.4"N - 92°06'10.0"W TO 46°45'07.2"N - 92°06'19.8"W
D. SHOALING TO 5 FT IN THE OUTSIDE HALF OF THE QUARTER
E. SHOALING TO 3 FT IN THE OUTSIDE HALF OF THE QUARTER

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

Chart 14975 (B) NM 24/14

SUPERIOR HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2013

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	29 B	32	32	29 C	8-13	600-1100	.18	31
2	28	31	32	30	8-13	415-1100	.15	30
3	29	30	30	28	8, 10-13	415	.08	29
4	23	30	29	26	8, 10-13	415-430	.08	28
5	24	29	29	26	8, 10-13	430-840	.08	27
SUPERIOR HARBOR BASIN	20 D	24	22	20	10-12; 10-13	600-2000	1.21	27
ALLOUEZ BAY CHANNEL	19	22	22	22	9, 10-13	400-900	.44	27
SUPERIOR FRONT CHANNEL	24	27	26	26	7, 10-13	600	2.32	27
EAST GATE BASIN (SOUTH)	26	26	27	26	7-13	600-3200	.57	27

A. CHANNEL DIVIDED INTO QUARTERS WHEN ENTERING FROM LAKE.
B. SHOALING TO 18 FEET AT 46°42'33.1"N 092°00'26.5"W
C. SHOALING TO 23 FEET AT 46°42'40.6"N 092°00'35.5"W
D. SHOALING TO 7 FEET AT 46°42'16.7"N 092°01'38.6"W

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

Chart 18583 NM 24/14

SIUSLAW RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2014 AND SURVEYS TO MAR 2014

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 (MILES)	DEPTH MLLW (FEET)
SIUSLAW RIVER ENTRANCE							
ENTRANCE TO MILE 0.2	18	17	16	9-13	300	0.8	18
MILE 0.2 TO MILE 0.8	13	15	15	9-13	200	0.6	16
CANNERY HILL REACH	14	13	12	3-14	200	1.3	16
SPRUCE POINT BEND	9	9	12	3-14	200	1.7	16
FLORENCE							
MILE 4.0 TO HIGHWAY BRIDGE	8	9	11	3-14	200	0.6	16
TURNING BASIN	9	7	6	3-14	400	1.1	16
TURNING BASIN TO ROSE HILL	8	7	7	3-14	150	0.9	12
NORTH FORK SHOAL	7	8	8	11-13	150	1.5	12
CUSHMAN	11	11	11	11-10	150	0.9	12

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