US Army Corps of Engineers®

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# Notice to Navigation Interests

Notice No. L03-19 Date: 20 MAY 2003

Waterway: CONNECTING WATERWAYS Location: MICHIGAN

CELRE-OT-T

CONDITION OF FEDERAL NAVIGATION CHANNEL
DETROIT RIVER – ST. CLAIR RIVER

1. Soundings obtained during obstruction removal operations and condition surveys performed within the Federal navigation channels of the Detroit River, Lake St. Clair and the St. Clair River, Michigan and Ontario, during CY 2002, indicate shoaling as shown on the attached tables. (Refer to NOAA Charts No. 14848 and No. 14853).

2. Elevations and project depths are referred to IGLD, 1985 when Lake Erie is at elevation 569.2 ft., Lake St. Clair at 572.3 ft. and Lake Huron at 577.4 ft. above Mean Water Level at Rimouski, Quebec.

3. The information depicted in this report represents the results of surveys made on the time indicated and can only be considered as indicating the conditions existing at that time.

4. Vessel operators are advised to use caution when navigating in these areas. Obstruction removal operations have resumed and will continue through December 2003, as weather permits.

5. All inquiries should be addressed to CELRE-OT-T and should refer to Notice to Navigation Interests No. L03-19. Internet address: http://huron.lre.usace.army.mil/OandM/o&m.html

THOMAS H. MAGNESS
Lieutenant Colonel, U.S. Army
District Engineer

Notice to the Postmaster:

It is requested that the above notice be conspicuously and continuously posted until December 30, 2002.

**LEAST AVAILABLE DEPTHS . . . . . .** as of 05 May 03

(All Channels are notated from Seaward including Livingstone Downbound, Trenton Channel and Belle Isle North Channel)
(The Least Available Depths are indicated in quadrants from the center of the channel)
(The represented data does not include the outer 40'-0" of channel limits)

| Channel | Sheet no. | Dates of Surveys | Channel Width | Project Depth | Left Outside | Left Inside | Right Inside | Right Outside |
|---|---|---|---|---|---|---|---|---|
| **DETROIT RIVER** | | | | | | | | |
| **LIVINGSTONE CHANNEL** | | | | | | | | |
| Buoy # 22 -to- Lt. D-30 | 1 - 3 | 6 & 13 JUNE 2002 | 1200 | 29.0 | 23.2 | 27.6 | 27.9 | 26.4 |
| Lt. D-30 -to- Buoy DL-4 | 3 - 5 | 20, 21, MAY + 6, JUNE 2002 | 800 | 29.0 | 25.4 | 27.9 | 28.1 | 26.6 |
| Buoy DL-4 -to- Limit 29.0' Prj. Depth (S. of Lt. DL-14) | 5 - 7 | 13 & 20 MAY 2002 | 450 | 29.0 | 27.7 | 27.9 | 27.9 | 27.3 |
| | **Least Available Depth: Buoy 22 to - Upstream Limit of Project Depth.....** | | | | **23.2** | **27.6** | **27.9** | **26.4** |
| Limit 27.7' Prj. Depth -to- Lt. DL-16 | 7 - 9 | 24 APR & 13 MAY 2002 | 450 | 27.7 | 26.0 | 26.5 | 26.6 | 26.2 |
| Lt. DL-16 -to- Lt. DL-26 | 9 - 13 | 8, 23, 24 APR + 1 MAY 2002 | 450 | 27.7 | 26.0 | 26.5 | 26.7 | 25.5 |
| Lt. DL-26 -to- Lt. D-77 (Liv. Ch. Entrance) | 13 - 14 | 8, 17 APR 2002 | 450 - 550 | 27.7 | 26.6 | 26.8 | 26.8 | 26.7 |
| | **Least Available Depth : Downstream Limit of Project Depth to - Light D 77 .....** | | | | **26.0** | **26.5** | **26.6** | **26.2** |
| **AMHERSTBURG CHANNEL** | | | | | | | | |
| **BAR PT. SHOALS, HACKETT REACH (WEST SIDE)** | | | | | | | | |
| Lt. 30 -to- Lt. 33 Prj Depth 28.5' | 1 - 2 | 18, 20 JUNE 2002 | 300 - 450 | 28.5 | 28.2 | 27.5 | 28.0 | 27.3 |
| Lt. 33 -to- Buoy D44 | 2 - 3 | 17, 20 JUNE 2002 | 300 | 28.5 | 28.0 | 27.2 | 26.6 | 26.4 |
| Buoy D44 -to- Buoy D50 | 3 - 4 | 3, 17 JUNE 2002 | 300 | 28.5 | 27.9 | 28.1 | 27.8 | 27.8 |
| Buoy D50 -to- Limit 28.5' Prj. Depth (by Buoy D-56) | 4 - 5 | 3, 14 JUNE 2002 | 300 | 28.5 | 27.1 | 27.6 | 27.6 | 27.8 |
| | **Least Available Depth : Light 30 to - Buoy D 56 .....** | | | | **27.1** | **27.2** | **26.6** | **26.4** |
| **AMHERSTBURG CHANNEL (PROJECT DEPTH CHANGE WEST SIDE)** | | | | | | | | |
| Limit 27.5' Prj. Depth -to- Lt. 69 (by Buoy D-56) | 5 - 6 | 14, 22, 29 MAY + 3, 4 JUNE 2002 | 300 | 27.5 | 26.9 | 26.9 | 26.7 | 26.1 |
| | **Least Available Depth : Buoy D 56 to - Light 69 .....** | | | | **26.9** | **26.9** | **26.7** | **26.1** |
| **AMHERSTBURG CHANNEL** | | | | | | | | |
| **BAR PT. SHOALS, HACKETT REACH, AMHERSTBURG and LIMEKILN (EAST SIDE)** | | | | | | | | |
| Lt. 30 -to- Lt. 33 Prj Depth 21.0' | 1 - 2 | 18, 20 JUNE 2002 | 300 - 450 | 21.0 | 21.0 | 21.0 | 20.1 | 18.9 |
| Lt.33 -to- Buoy D44 | 2 - 3 | 17, 20 JUNE 2002 | 300 | 21.0 | 19.8 | 19.9 | 19.9 | 20.1 |
| Buoy D44 -to- Buoy D50 | 3 - 4 | 3, 17 JUNE 2002 | 300 | 21.0 | 20.9 | 20.9 | 20.6 | 20.6 |
| Buoy D50 -to- Buoy D56 | 4 - 5 | 3, 14 JUNE 2002 | 300 | 21.0 | 20.3 | 20.4 | 20.2 | 19.7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Buoy DA-14 -to- Light D-69 | 5 - 6 | 14,22,29 MAY + 3,4 JUN 2002 | 300 | 21.0 | 19.7 | 19.8 | 19.9 | 19.8 |
| | **Least Available Depth : Light 30 to - Light 69 .....** | | | | **19.7** | **19.8** | **19.9** | **18.9** |
| **BALLARDS REEF CHANNEL** | | | | | | | | |
| P.D.Trns.Line S. of Lt. D74 to P.D. Trns. Line N. of Liv. Ent. Lt. | 1 - 2 | 7,23,29 MAY 2002 | 600 | 27.5 | 27.2 | 27.3 | 27.0 | 26.2 |
| | **Least Available Depth : Light D 69 to - Upstream Limit of Project Depth .....** | | | | **27.2** | **27.3** | **27.0** | **26.2** |
| P.D. Trans Line N. of Liv. Ent. Lt. to Buoy D80 | 2 - 3 | 07-May-02 | 600 | 28.5 | 26.9 | 27.3 | 27.5 | 27.5 |
| Buoy D80 -to- Buoy D84 | 3 - 5 | 5,19 JUN + 7 MAY 2002 | 600 | 28.5 | 26.7 | 27.6 | 27.6 | 26.8 |
| Buoy D84 -to- Buoy D87 | 5 - 6 | 2,19 MAY 2002 | 600 - 800 | 28.5 | 28.1 | 28.4 | 28.3 | 25.3 |
| | **Least Available Depth : Downstream Limit of P. D. to - Fighting Island south Light .....** | | | | **26.7** | **27.3** | **27.5** | **25.3** |
| **FIGHTING ISLAND CHANNEL** | | | | | | | | |
| C/L T.P.@ Fighting Is. S. Lt. -to- Mamajuda Light | 1 - 3 | JULY 2001 | 800 | 28.5 | 27.3 | 28.5 | 27.8 | 27.4 |
| Mamajuda Light -to- Fighting Is. N. Light | 3 - 7 | JUNE 2001 | 800 | 28.5 | 25.7 | 28.5 | 28.0 | 28.5 |
| | **Least Available Depth : Fighting Island south Light to - Fighting Island north Light ..** | | | | **25.7** | **28.5** | **27.8** | **27.4** |
| **ECORSE REACH** | | | | | | | | |
| F.I. North Lt. -to- Fed. Proj. Limit | 1 - 2 | 30 June + 6 July '99 | 800 | 28.5 | 28.5 | 28.4 | 27.5 | 25.4 |
| | **Least Available Depth : Fighting Island north Light to - Federal Project Limit .....** | | | | **28.5** | **28.4** | **27.5** | **25.4** |
| **TRENTON CHANNEL** | | | | | | | | |
| Ecorse Reach West Ch/L -to- Buoy 20 | 1 | 7, Dec. 2000 | 300 | 27.0 | 26.2 | 26.6 | 26.6 | 26.6 |
| Buoy 20 -to- Buoy 18 | 1 - 2 | 7, Dec. 2000 | 300 - 670 | 27.0 | 22.5 | 27.0 | 27.0 | 24.1 |
| Buoy 18 -to- Buoy 16 | 2 - 3 | 15, 28, Nov. 2000 | 300 - 670 | 27.0 | 26.6 | 27.0 | 27.0 | 27.0 |
| Buoy 16 -to- Buoy 30 | 3 - 4 | 13, 15, 28, Nov. 2000 | 670 - 300 | 27.0 | 26.8 | 26.3 | 27.0 | 20.9 |
| Buoy 30 -to- Limit of 27.0' Prj. Depth (near Grosse Ile Bridge) | 4 - 6 | 13, Nov. + 6, Dec. 2000 | 300 - 510 | 27.0 | 26.9 | 27.0 | 27.0 | 27.0 |
| | **Least Available Depth : Ecorse Reach west chnl. Limit to - Downstream Limit of Pro** | | | | **22.5** | **26.3** | **26.6** | **20.9** |
| Limit of 28.0' Prj. Depth (near Grosse Ile Bridge) -to- Limit of 28.0' Prj. Depth ( S. end of N. Turn. Basin near Buoy 17) | 6 - 7 | 20, 27, Nov. + 6, Dec. 2000 | 300 - 800 | 28.0 | 28.0 | 28.0 | 28.0 | 18.9 |
| | **Least Available Depth : Upstrm. Limit of Proj. Depth to - Dwnstrm. Limit of Proj. De** | | | | **28.0** | **28.0** | **28.0** | **18.9** |
| Limit of 21.0' Prj. Depth -to- Buoy 11 | 7 - 8 | 27, Nov. + 6, Dec. 2000 | 300 - 800 | 21.0 | 21.0 | 21.0 | 21.0 | 20.9 |

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|---|---|---|---|---|---|---|---|---|
| (near Buoy 17) | | | | | | | | |
| Buoy 11 -to- CS 461+00 | 8 - 13 | 11/94 + 6, Dec. 2000 | 300 - 1000 | 21.0 | 20.9 | 19.7 | 19.0 | 21.0 |
| | | ( PAJ can't get into turn basin) | | | | | | |
| | **Least Available Depth : Upstrm. Limit of Proj. Depth to - End of Federal Project .....** | | | | **20.9** | **19.7** | **19.0** | **20.9** |
| **FLEMMING CHANNEL** | | | | | | | | |
| **BELLE ISLE REACH, WINDMILL PT. REACH, WM. LIVINGSTONE REACH** | | | | | | | | |
| Dwnstr. Limit of Fed. Proj. -to- Buoy DPB | 1 - 3 | Oct, 2000 | 800 | 28.5 | 28.0 | 28.5 | 28.5 | 28.5 |
| Buoy DPB -to- Buoy 114 | 3 - 5 | Nov, 2000 | 800 | 28.5 | 28.5 | 28.5 | 28.5 | 26.9 |
| Buoy 114 -to- Limit of 28.5' Prj. Depth | 5 - 7 | Oct, + Nov, 2000 | 1000 - 800 | 28.5 | 28.0 | 28.5 | 28.2 | 26.3 |
| | **Least Available Depth : Upstrm. Limit of Proj. Depth to - Dwnstrm. Limit of Proj. Dept** | | | | **28.0** | **28.5** | **28.2** | **26.3** |
| Limit of 27.5' P.D. -to- Buoy # 2 | 7 | Oct, 2000 | 1000 - 800 | 27.5 | 26.1 | 27.2 | 27.5 | 27.5 |
| | **Least Available Depth : Upstrm. Limit of Proj. Depth - end of Fed. Proj.- to - Buoy # 2** | | | | **26.1** | **27.2** | **27.5** | **27.5** |
| **BELLE ISLE NORTH CHANNEL** | | | | | | | | |
| Ent. near Buoy # 113 -to- End of Fed. Proj. | 1 | 6/95 | 200 | 21.0 | 21.0 | 21.0 | 20.5 | 20.9 |
| | **Least Available Depth : Livingstone Reach w. chnl. Limit to - End of Federal Project** | | | | **21.0** | **21.0** | **20.5** | **20.9** |
| **LAKE ST CLAIR, PEACH ISLAND RANGE** | | | | | | | | |
| Buoy 2 -to- Buoy 7 | 1 - 4 | 11, Sept. 2000 | 800 | 27.5 | 27.0 | 27.5 | 27.5 | 27.5 |
| Buoy 7 -to- Buoy 11 | 4 - 6 | 4, 5, Aug. '99 | 800 | 27.5 | 26.4 | 27.3 | 27.0 | 26.4 |
| Buoy 11 -to- Buoy 13 | 6 - 7 | 5, 9, Aug. '99 | 800 | 27.5 | 26.4 | 27.5 | 27.5 | 26.9 |
| Buoy 13 -to- Buoy 17 | 7 - 10 | 9, 11, Aug. '99 | 800 | 27.5 | 26.4 | 27.5 | 27.5 | 26.3 |
| Buoy 20 -to- Buoy 24 | 10 - 15 | 11, 12, Aug. '99 | 800 | 27.5 | 27.5 | 27.5 | 27.5 | 25.0 |
| | **Least Available Depth : Buoy # 2 to - Buoy # 24 .....** | | | | **26.4** | **27.3** | **27.0** | **25.0** |
| **ST. CLAIR FLATS RANGE** | | | | | | | | |
| Crib Light -to- Buoy 26 | 1 - 3 | 17 Sept. + 28 Oct. '99 | 800 | 27.5 | 27.5 | 27.5 | 27.5 | 24.1 |
| Buoy 26 -to- Buoy 28 | 3 - 5 | 10 , 17 Sept. '99 | 800 | 27.5 | 26.7 | 27.5 | 27.5 | 26.2 |
| Buoy 28 -to- Buoy 30 | 5 - 6 | 3 , 10 Sept. '99 | 800 | 27.5 | 27.5 | 27.5 | 27.5 | 26.9 |
| Buoy 30 -to- Junction Buoy | 6 - 7 | 3 Sept. '99 | 800 - 1000 | 27.5 | 27.5 | 27.5 | 27.5 | 18.6 |
| | **Least Available Depth : from Crid Light to - Junction Buoy.....** | | | | **26.7** | **27.5** | **27.5** | **18.6** |
| **SOUTHEAST BEND CUTOFF CHANNEL** | | | | | | | | |
| Junction Buoy -to- International Boundary | 1-2 | 8, NOV. 2000 | 700 - 830 | 27.1 | 27.1 | 27.1 | 27.1 | 26.8 |
| | **Least Available Depth : from Crib Light to - International Boundary .....** | | | | **27.1** | **27.1** | **27.1** | **26.8** |
| **ST. CLAIR RIVER** | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|
| Lt. 11 -to- Buoy X-50 | 1 | 7, DEC. 2000 | 700 | 27.1 | 26.6 | 27.1 | 27.1 | 27.1 |
| Buoy X-50 -to- Buoy 16 | 1 - 2 | 18 JULY + 6 SEP 2001 | 700 | 27.1 | 25.5 | 27.1 | 27.1 | 27.1 |
| Buoy 16 -to- Lt. 20 | 2 - 3 | 6, 10 SEP 2001 | 700 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 |
| | **Least Available Depth : Light # 11 to - Buoy A 22 .....** | | | | **25.5** | **27.1** | **27.1** | **27.1** |
| Lt. 20 -to- Buoy A24 | 3 - 5 | 11 JULY + 10,13 SEP 2001 | 900 | 27.2 | 27.2 | 27.2 | 27.0 | 25.1 |
| Buoy A24 -to- Buoy 29(Russel Is. Lower Lt.) | 5 - 9 | 12 JULY 2001 | 900 - 1000 | 27.2 | 25.9 | 27.2 | 27.2 | 26.9 |
| | **Least Available Depth : Buoy A 16 to - Buoy A 30 .....** | | | | **25.9** | **27.2** | **27.0** | **25.1** |
| Russel Is. Lwr. Lt. -to- Russel Is. Shoal Buoy | 9 - 11 | 12, 17 JULY 2001 | 1000 | 27.3 | 26.4 | 27.0 | 27.3 | 26.6 |
| Russel Is. Shoal Buoy -to- Buoy A36 | 11 - 13 | 17 JULY 2001 | 1000 | 27.3 | 27.1 | 26.9 | 27.3 | 27.3 |
| Buoy A36 -to- Buoy 42 | 13 - 22 | 10,17,18,20,24,25,SEP + 1-3,9,10,OCT 2001 | 1000 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| Buoy 42 -to- Stokes Pt. Wharf Lt. | 22 - 23 | 17 SEP 2001 | 1000 | 27.3 | 26.4 | 27.3 | 27.3 | 27.3 |
| Stokes Pt. Wharf Lt. -to- Buoy A46 | 23 - 29 | 15 AUG + 17 SEP 2001 | 1000 | 27.3 | 27.3 | 27.3 | 27.3 | 27.2 |
| Buoy A46 -to- Buoy A52 | 29 - 33 | 7, 15 AUG 2001 | 1000 - 900 | 27.3 | 27.3 | 27.3 | 26.7 | 25.3 |
| Buoy A52 -to- Buoy A54 | 33 - 35 | 7, 14, 15, AUG 2001 | 900 - 1000 | 27.3 | 27.3 | 27.3 | 26.9 | 26.8 |
| Buoy A54 -to- Buoy 55 | 35 - 36 | 14, 22 AUG 2001 | 1000 - 1200 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| Buoy 55 -to- Buoy 56 | 36 - 38 | 21,22,28,29, AUG 2001 | 1200 - 1000 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| Buoy 56 -to- Stag Is. Middle Lt. | 38 - 40 | 23,29,30, AUG 2001 | 1000 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| Stag Is. Middle Lt. -to- Limit 27.3' Prj. Depth (Stag Is. Uppr Lt.) | 40 - 42 | 16,20,23,29,30 AUG 2001 | 1000 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 |
| | **Least Available Depth : Buoy 29 to - Upstream Limit of Project Depth .....** | | | | **26.4** | **26.9** | **26.7** | **25.3** |
| Limit 27.4' Prj. Depth ( Stag Is. Uppr. Lt.) -to- Buoy A60 | 42 - 43 | 16,20, AUG 2001 | 1000 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 |
| Buoy A60 -to- Black River Ent. Light | 43 - 50 | 31,JULY + 1,2,6,8,9,13,16, AUG 2001 | 1000 - 1400 | 27.4 | 27.3 | 27.4 | 26.9 | 27.4 |
| Black River Ent. Light -to- Limit of 27.4' Proj. Depth | 50 | 31, July + 1, AUG 2001 | 1400 - 500 | 27.4 | 25.7 | 27.4 | 27.4 | 27.4 |
| CS 2019+00 -to- CS 2149+00 | 51 - 54 | 28, JULY '98 | 1400 - 800 | 27.4 | 27.4 | 27.4 | 27.4 | 25.1 |
| | **Least Available Depth : Dwnstrm. Limit of Proj. Depth to - Upstrm. Limit of Proj. De** | | | | **25.7** | **27.4** | **26.9** | **25.1** |
| Limit of 30.0' P.D. -to- BOUY #1 | 54 | 9/94 | 800 | 30.0 | 29.5 | 30.0 | 30.0 | 30.0 |
| | **Least Available Depth : Dwnstrm. Limit of Proj. Depth to - Buoy # 1 .....** | | | | **29.5** | **30.0** | **30.0** | **30.0** |

**LAKE HURON**
**POINT EDWARD RANGE**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Buoy 1 -to- Buoy 5 | 1 - 4 | 14 Aug. & 5 Sep. 2002 | 800 | 30.0 | 15.3 | 29.8 | 29.6 | 27.5 |
| Buoy 5 -to- Lighted Buoy # 7 | 5 - 6 | 26 Aug. 2002 | 800 | 30.0 | 26.2 | 30.0 | 30.0 | 26.7 |
| Buoy #7 -to- Buoy 9 (data not avlbl.) | 7 - 8 | 26 Aug. 2002 | 800 | 30.0 | 29.2 | 30.0 | 29.1 | 30.0 |
| | **Least Available Depth : Buoy # 1 to - Buoy # 9 .....** | | | | **15.3** | **29.8** | **29.1** | **26.7** |