

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE**

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DATE 29 April 2016

TO: The Record

FROM: U.S. Army Corps of Engineers
26 Federal Plaza, ATTN: CENAN-OP-ST
New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:
Long Island Intracoastal Waterway, New York

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
Reach A: Begins at the intersection of the Patchogue River and the Great South Bay Channel and ends approximately 85 feet seaward of GREEN CAN #1 W/LIGHT EBB.	File #232 Sheets 6-12; 4 AUG – 16 OCT 2015	100	3.46	6	6.9	6.8	6.6
Reach B: Begins approximately 85 feet seaward of GREEN CAN #1 W/LIGHT EBB and ends approximately 150 feet landward of GREEN CAN #11 W/LIGHT FLOOD.	File #232 Sheets 12-18; 4 AUG – 16 OCT 2015	100	3.67	6	4.9	5.5	4.6
Reach C: Begins approximately 150 feet landward of GREEN CAN #11 W/LIGHT FLOOD and ends approximately 125 feet seaward of GREEN CAN #9 W/LIGHT FLOOD.	File #232 Sheets 18-23; 4 AUG – 16 OCT 2015	100	3.03	6	5.8	5.4	5.1
Reach D: Begins approximately 125 feet seaward of GREEN CAN #9 W/LIGHT FLOOD and ends approximately 280 feet landward of GREEN CAN #21 FLOOD.	File #232 Sheets 23-29; 4 AUG – 16 OCT 2015	100-253	3.46	6	3.1	1.2	0.8
Reach E: Begins approximately 280 feet landward of GREEN CAN #21 FLOOD and ends approximately 240 feet landward of GREEN CAN #31 W/LIGHT EBB.	File #232 Sheets 29-34; 4 AUG – 16 OCT 2015	100	2.86	6	0.0	1.2	1.0
Reach F: Begins approximately 240 feet landward of GREEN CAN #31 W/LIGHT EBB and ends approximately at JESSUP LANE BRIDGE.	File #232 Sheets 34-37; 4 AUG – 16 OCT 2015	100-195	2.43	6	4.2	4.9	5.2

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**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
Reach G: Begins approximately at JESSUP LANE BRIDGE and ends approximately 435 feet landward of GREEN CAN #1 EBB.	File #232 Sheets 37-43; 4 AUG – 16 OCT 2015	100-200	3.23	6	3.1	1.7	1.0
Reach H: Begins approximately 435 feet landward of GREEN CAN #1 EBB and ends approximately at PONQUOQUE BRIDGE.	File #232 Sheets 43-50; 4 AUG – 16 OCT 2015	100-177	4.26	6	0.9	0.4	0.0
Reach I: Begins approximately at PONQUOQUE BRIDGE and ends approximately 1,700 feet landward of RED NUN #34 W/LIGHT EBB.	File #232 Sheets 50-55; 4 AUG – 16 OCT 2015	100-223	3.05	6	0.7	4.6	4.8

REMARKS:

- All depths are relative to Mean Lower Low Water.
- The channel reach lengths are in nautical miles.

LONG ISLAND INTRACOASTAL WATERWAY

- **Reach A:**
 - No shoaling.
- **Reach B:**
 - Shoaling exists in the RIGHT OUTSIDE QUARTER, partially extending into the MIDDLE HALF, beginning approximately 1,950 feet landward of RED NUN #4 FLOOD and ends approximately 555 feet seaward of RED NUN #6 W/LIGHT FLOOD.
 - Shoaling exists in the LEFT OUTSIDE QUARTER approximately 810 feet seaward of RED NUN #8 FLOOD and ends approximately 290 feet seaward of RED NUN #8 FLOOD, having a maximum width of approximately 20 feet.
 - Shoaling exists in the RIGHT OUTSIDE QUARTER beginning approximately 660 feet landward of RED NUN #8 FLOOD and ends approximately 890 feet landward of GREEN CAN #9 FLOOD, having a maximum width of approximately 10 feet.
 - Shoaling exists across the LEFT OUTSIDE QUARTER and MIDDLE HALF, partially extending into the RIGHT OUTSIDE QUARTER, beginning from approximately 185 feet landward of GREEN CAN #9 FLOOD and ends approximately 920 feet landward of GREEN CAN #9 FLOOD, having a maximum width of approximately 80 feet.
 - Shoaling exists in the LEFT OUTSIDE QUARTER, extending into the MIDDLE HALF, starting approximately 780 feet seaward of GREEN CAN #11 W/LIGHT FLOOD and ending 270 feet landward of GREEN CAN #11 W/LIGHT FLOOD. Also, there is spot of shoaling in the MH and ROQ approximately in the same vicinity.

- **Reach C:**
 - Shoaling exist in the MH approximately 500 feet seaward of RED NUN #2 FLOOD and continue landward approximately 60 feet, having a maximum width of approximately 15 feet.
 - Shoaling along the toe of the RIGHT OUTSIDE QUARTER exists approximately 455 feet seaward of RED NUN #4 FLOOD ends at the approximate location of RED NUN #4 FLOOD, having a maximum width of approximately 10 feet.
 - Shoaling exist in the RIGHT OUTSIDE QUARTER, along the channels toe, starting approximately 910 feet landward of RED NUN #4 FLOOD and ends 1,530 feet landward of RED NUN #4 FLOOD, having a maximum width of approximately 20 feet.
 - Spot shoaling exists in all quarters approximately 1,910 feet seaward of RED NUN #6 W/LIGHT FLOOD.
 - Shoaling along the toe of the ROQ exists approximately 940 feet landward of RED NUN #6 W/LIGHT FLOOD and ends 1,130 feet landward of RED NUN #6 W/LIGHT FLOOD.

- **Reach D:**
 - Shoaling exists across all quarters starting approximately 1070 feet landward of RED NUN #10 EBB and ends approximately 1300 feet seaward of GREEN CAN #11 EBB.
 - Shoaling exists across all quarters, thence tapering into the RIGHT OUTSIDE QUARTER, starting approximately 580 feet seaward of GREEN CAN #11 EBB and ends approximately 821 feet landward of GREEN CAN #11 EBB.
 - Shoaling exists across all quarters starting approximately 1700 feet seaward of GREEN CAN #17 FLOOD and ends approximately 55 feet seaward of GREEN CAN #17 FLOOD.
 - Shoaling exists for the majority all quarters starting approximately 1200 feet landward of GREEN CAN #15 W/LIGHT FLOOD and ends approximately 85 feet seaward of GREEN CAN #17 FLOOD
 - Shoaling exists for the majority of all quarters starting approximately 360 feet seaward of GREEN CAN #17A FLOOD and ending approximately 150 feet seaward of the same buoy.
 - Shoaling exists for the majority of all quarters starting approximately 340 feet seaward of RED NUN #20 FLOOD and ending approximately 545 feet landward of the same buoy. Shoaling exists in the MIDDLE HALF approximately 620 feet landward of RED NUN #20 FLOOD and ending approximately 695 feet landward of same buoy, having a maximum width of approximately 12 feet.
 - Shoaling exists in the LEFT OUTSIDE QUARTER, extending into the MIDDLE HALF, starting approximately 260 feet seaward of GREEN CAN #21 FLOOD and ending at the approximate location of same buoy.
 - Shoaling exists in the LEFT OUTSIDE QUARTER starting approximately 200 feet landward of GREEN CAN #21 FLOOD and ending approximately 730 feet landward of same buoy (in REACH E).

- **Reach E:**
 - Shoaling exists for the majority of all quarters starting approximately 425 feet seaward of RED NUN #26 W/LIGHT FLOOD and ends approximately 475 feet landward of GREEN CAN #29 W/LIGHT EBB.

- **Reach F:**
 - Shoaling exists for the majority of all quarters starting approximately 710 feet seaward of RED NUN #34 W/LIGHT EBB and ends approximately 620 feet landward of GREEN CAN #35 FLOOD, thence tapers along the LEFT OUTSIDE QUARTER that starts 620 feet landward of GREEN CAN #35 FLOOD and ends approximately 290 feet landward of RED NUN #36 FLOOD, having a maximum width of approximately 10 feet.
 - Shoaling exists in the LEFT OUTSIDE QUARTER and MIDDLE HALF starting approximately 25 feet landward of GREEN CAN #37 W/LIGHT FLOOD and ending approximately 300 feet landward of the same buoy.
 - Shoaling exists for the majority of all quarters starting approximately 330 feet seaward pf JESSUP LANE BRIDGE and ending approximately 45 feet landward of JESSUP LANE BRIDGE (in REACH G).

- **Reach G:**
 - Shoaling exists in the LEFT OUTSIDE QUARTER and MIDDLE HALF approximately 830 feet seaward of FIXED AID TO NAVIGATION GREEN #3 and ends approximately 715 feet seaward of FIXED AID TO NAVIGATION GREEN #3.
 - Shoaling exists along the toe of the LEFT OUTSIDE QUARTER, along the toe, at approximately the location of the FIXED AID TO NAVIAGTION GREEN #3.
 - Shoaling exists along the toe of the LEFT OUTSIDE QUARTER starting approximately 265 feet landward of FIXED AID TO NAVIGATION GREEN #5 and ends approximately 630 feet landward of FIXED AID TO NAVIGATION GREEN #5.
 - Shoaling exists along the toe of the RIGHT OUTSIDE QUARTER starting approximately 545 feet landward of FIXED AID TO NAVIGATION GREEN #5 and ends approximately 610 feet landward of FIXED AID TO NAVIGATION GREEN #5.
 - Shoaling exists across the majority of all quarters starting approximately 480 feet seaward of BEACH LANE BRIDGE and ending approximately 130 feet seaward of BEACH LANE BRIDGE.

- Shoaling exists in the LEFT OUTSIDE QUARTER and RIGHT OUTSIDE QUARTER starting approximately 420 feet seaward of FIXED AID TO NAVIGATION GREEN #7 W/LIGHT and ending approximately 260 feet landward of FIXED AID TO NAVIGATION GREEN #7 W/LIGHT.
 - Shoaling exists for the majority of all quarters starting approximately 870 feet seaward of FIXED AID TO NAVIGATION GREEN #9 and ending approximately 1700 feet landward of RED #10 W/LIGHT EBB.
 - Shoaling exists in the LEFT OUTSIDE QUARTER and MIDDLE HALF starting approximately 2470 feet seaward of POST LANE BRIDGE and ends approximately 2370 feet seaward of POST LANE BRIDGE.
 - Shoaling exists for the majority of all quarters starting approximately 2095 feet seaward of POST LANE BRIDGE and ending approximately 1750 feet seaward of POST LANE BRIDGE.
 - Shoaling exists along the LEFT OUTSIDE QUARTER, along the toe, starting approximately 320 feet seaward of POST LANE BRIDGE and ending approximately 190 feet seaward of POST LANE BRIDGE, having a maximum width of approximately 10 feet.
 - Shoaling exist in the LEFT OUTSIDE QUARTER, along the toe, starting approximately 120 feet landward of POST LANE BRIDGE and ending approximately 290 feet landward of POST LANE BRIDGE, having a maximum width of approximately 12 feet.
 - Shoaling exists in the RIGHT OUTSIDE QUARTER and MIDDLE HALF starting approximately 470 feet landward of POST LANE BRIDGE and ending approximately 560 feet landward of POST LANE BRIDGE, having a maximum width of approximately 30 feet.
 - Spot shoaling exists in the MIDDLE HALF approximately 625 feet from POST LANE BRIDGE.
 - Shoaling exist for the majority of all quarters starting approximately 1830 feet seaward of GREEN CAN #1 EBB and ending approximately 1545 feet landward of GREEN CAN #1 EBB.
- **Reach H:**
 - Shoaling exists in the LEFT OUTSIDE QUARTER (beginning in REACH G) and RIGHT OUTSIDE QUARTER along the channels toe starting approximately 700 feet seaward of GREEN CAN #1 EBB and ending approximately 290 feet landward of FIXED AID TO NAVIGATION RED #2.
 - Shoaling exists in the RIGHT OUTSIDE QUARTER and MIDDLE HALF starting approximately 425 feet landward of GREEN CAN #3 FLOOD and ending 280 feet landward of RED NUN #4 W/LIGHT FLOOD, having a maximum width of approximately 45 feet, thence widening across the majority of all quarters starting approximately 280 feet landward of RED NUN #4 W/LIGHT FLOOD and ending 1450 feet landward of RED NUN #4 W/LIGHT FLOOD
 - Shoaling exists across all quarters starting approximately 400 feet seaward of RED #6 W/LIGHT FLOOD and ending 265 feet landward of RED NUN #8 FLOOD.
 - Shoaling exists across all quarters starting approximately 2560 feet landward of GREEN #9 W/LIGHT EBB and ends approximately 3900 feet landward of GREEN #9 W/LIGHT EBB.
 - Shoaling exist across all quarters starting approximately 3130 feet seaward of GREEN CAN #13 W/LIGHT EBB and ends approximately 940 feet seaward of GREEN CAN #13 W/LIGHT EBB.
 - **Reach I:**
 - Shoaling exists across all quarters starting approximately 515 feet landward of GREEN CAN #19 EBB and continues approximately 270 feet landward.
 - Shoaling exists along the toe in the LEFT OUTSIDE QUARTER starting approximately at the location of GREEN CAN #25 W/LIGHT EBB and ending approximately 240 landward of GREEN CAN #25 W/LIGHT EBB.
 - Shoaling exists in the LEFT OUTSIDE QUARTER and MIDDLE HALF starting approximately 35 feet seaward of GREEN CAN #31 EBB and ending 300 feet landward of GREEN CAN #31 EBB.
 - Shoaling exists in the RIGHT OUTSIDE QUARTER, MIDDLE HALF and along the toe of the LEFT OUTSIDE QUARTER starting approximately 320 feet seaward of RED NUN #34 W/LIGHT EBB and ending approximately 180 feet landward of RED NUN #34 W/LIGHT EBB.
 - Shoaling exist in the LEFT OUTSIDE QUARTER starting approximately 980 feet landward of RED NUN #34 W/LIGHT EBB and ending 1680 feet landward of RED NUN #34 W/LIGHT EBB.