

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER**

PAGE

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DATE

28 September 2018

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:
East River, Battery to Throgs Neck Bridge, New York

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)				
Reach A: Starts between Castle Williams (Governors Island) and Castle Clinton (Manhattan) to approximately 1,800 feet seaward of the Brooklyn Bridge	File 194, Sheet 2 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 1,000 To 1,890	0.92	40	39.5	39.4	39.3	36.0
Reach B: From approximately 1,800 feet seaward of the Brooklyn Bridge to approximately 500 feet landward from the Manhattan Bridge	File 194, Shts. 2&3 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 1,000 To 1,380	0.67	40	15.5	45.5	41.1	34.5
Reach C: From approximately 500 feet landward from the Manhattan Bridge to approximately 675 feet seaward of the Williamsburg Bridge	File 194, Sheet 3 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 1,000 To 1,270	0.82	40	31.5	40.5	39.2	37.4
Reach D: From approximately 675 feet seaward of the Williamsburg Bridge to approximately 685 feet seaward of GREEN/RED BUOY B w/ LIGHT	File 194, Shts. 3&4 of 10; 14 Apr 2018 – 23 Apr 2018	900	1.82	35	33.4	35.5	34.2	34.5
Reach E: From approximately 685 feet seaward of GREEN/RED BUOY B w/ LIGHT to approximately 500 feet landward of Roosevelt Island	File 194, Shts. 4-6 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 550 To 1,000	2.49	35	27.9	38.9	34.4	34.4
Reach F: From approximately 500 feet landward of Roosevelt Island to approximately 1230 feet landward of Hell Gate Bridge	File 194, Sheet 6 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 650 To 850	1.23	35	34.6	35.4	32.9	35.0
Reach G: From approximately 1230 feet landward of Hell Gate Bridge to approximately 150 feet landward of GREEN CAN #7 FLOOD	File 194, Shts. 6&7 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 795 To 1,100	1.60	35	35.5	34.6	35.7	36.6
Reach H: From approximately 150 feet landward of GREEN CAN #7 FLOOD to approximately 125 feet seaward of GREEN CAN #1A	File 194, Shts. 7-9 of 10; 14 Apr 2018 – 23 Apr 2018	1,000	3.58	35	32.9	36.1	35.1	24.9
Reach I: From approximately 125 feet seaward of GREEN CAN #1A to approximately 2,460 feet landward of Throgs Neck Bridge	File 194, Shts. 9&10 of 10; 14 Apr 2018 – 23 Apr 2018	1,000	1.63	35	37.5	36.9	37.1	35.6
Reach J: From the south end of the channel at the mouth of Newton Creek to approximately 600 feet seaward of Queensboro Bridge	File 194, Shts. 4&5 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 500 To 2,475	1.22	30	26.4	27.4	22.1	23.1
Reach K: Irregular Area from approximately 600 feet seaward of Williamsburg Bridge to the UN International School (Manhattan)	File 194, Shts. 3&4 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 175 To 1,040	1.45	35	24.9			

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RIVER/HARBOR NAME AND STATE:
East River, Battery to Throgs Neck Bridge, New York

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)				
Reach L: From approximately 1,585 feet landward of GREEN #13 w/LIGHT EBB to approximately 1,390 feet landward of RED #2 EBB.	File 194, Sht 7 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 300 to 930	0.52	20	16.5	21.3	21.2	14.5
Reach M (South Brother Channel): Beginning approximately 30 feet seaward of GREEN CAN #7 and 400 feet seaward of GREEN #1 W/LIGHT, continuing 5,170 feet landward to the start of the turning basin at the locations of GREEN / RED "RI" AND GREEN #7 W/LIGHT	File 194, Sht 7 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 400 To 1,600	0.79	35	32.7	31.9	32.8	32.5
Reach N (Turning Basin at Astoria Waterfront): A turning basin 1,000 feet wide beginning at the locations of GREEN / RED "RI" AND GREEN LIGHT #7 and continuing 1,400 feet landward to the end of the channel, 15 feet landward of GREEN CAN #9.	File 194, Sht 7 of 10; 14 Apr 2018 – 23 Apr 2018	Varies 675 To 1,000	0.26	35	35.1	34.6	36.4	35.2

REMARKS:

- All depths are in reference to Mean Lower Low Water
- The channel length is in nautical miles.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach A:**
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing at the start of the reach and continues for approximately 1,350 feet landward from GREEN #3 W/ LIGHT EBB.
 - Shoaling exists in the Left Inside Quarter commencing at approximately 190 feet landward from the start of the reach and continues for approximately 595 feet landward.
 - Shoaling exists along the channel toe in the Right Outside Quarter commencing at approximately 1,015 feet landward from the start of the reach and continues approximately 2,315 feet landward.
 - Shoaling exists in the Right Outside Quarter at approximately 1,140 feet landward from GREEN #3 W/ LIGHT EBB and continues approximately 360 feet landward.
 - Shoaling exists along the center of the Right Inside Quarter commencing approximately 885 feet landward of GREEN #3 W/ LIGHT EBB and continues landward approximately 495 feet.
 - Shoaling exists in the Right Outside Quarter at approximately 685 feet seaward from the end of the reach and continues 305 feet landward.
 - The controlling depth of -36.0 feet MLLW exists along the channel toe of the Right Outside Quarter approximately 1,425 feet landward of GREEN #3 W/ LIGHT EBB.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach B:**
 - A shoal exists in the Right Outside Quarter at approximately 250 feet from the start of the reach and continues for approximately 110 feet.
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing at the end of the reach and continues 3,365 feet seaward.
 - A shoal exists in the Right Outside Quarter at approximately 815 feet landward from the start of the reach and continues for approximately 410 feet landward. Another shoal exists at approximately 1,025 feet landward from the end of the previous shoal and continues for approximately 270 feet landward.
 - The controlling depth of -15.5 feet MLLW exists along the channel toe of the Left Outside Quarter approximately 2,500 feet seaward from the end of the reach.
- **Reach C:**
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing at the start of the reach and continues for approximately 2,665 feet landward.
 - The controlling depth of -31.5 feet MLLW exists along the channel toe of the Left Outside Quarter approximately 223 feet landward of the start of the reach.
- **Reach D:**
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 570 feet landward from the start of the reach and continues for approximately 800 feet seaward of RED #18 W/ LIGHT FLOOD. Intermittent shoaling is present at approximately 3,700 feet seaward from the end of the reach and continues approximately 1,325 feet landward.
 - Edge shoaling in the Right Outside Quarter.
 - The controlling depth of -33.4 feet MLLW exists along the Left Outside Quarter approximately 1,055 feet landward of the start of the reach.
- **Reach E:**
 - Intermittent shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 710 feet seaward from the end of the reach and continues approximately 6,730 feet seaward.
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 1,190 feet seaward from the end of the reach and continues approximately 4,975 feet seaward.
 - The Controlling Depth of -27.9 feet MLLW exists along the Left Outside Quarter approximately 3,415 feet seaward from the end of the reach.
- **Reach F:**
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 1,765 feet landward from the start of the reach and continues for approximately 910 feet seaward of the end of the reach.
 - Intermittent shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 1,975 feet landward from the start of the reach and continues for approximately 350 feet seaward of the end of the reach.
 - The Controlling Depth of -32.9 feet MLLW exists along channel toe of the Right Outside Quarter approximately 350 feet seaward from the end of the reach.
- **Reach G:**
 - A spot shoal exists in the Left Inside Quarter approximately 285 feet seaward of GREEN #13 W/ LIGHT EBB.
 - The Controlling Depth of -34.6 feet MLLW exists along the Left Inside Quarter approximately 285 feet seaward of GREEN #13 W/ LIGHT EBB.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach H:**
 - Shoaling exists along the channel toe in the Right Outside Quarter commencing approximately 345 feet seaward of RED #6 FLOOD and continues approximately 675 feet landward with a maximum width of approximately 235 feet.
 - Intermittent shoaling exists in the Left Outside Quarter commencing approximately 1,500 feet landward of RED #6 FLOOD and continues approximately 2,630 feet landward.
 - The Controlling Depth of -24.9 feet MLLW exists along the channel toe of the Right Outside Quarter approximately 1,545 feet landward of GREEN #1 W/ LIGHT FLOOD.
- **Reach I:**
 - No shoaling exists along this reach.
 - The Controlling Depth of -35.6 feet MLLW exists along the channel toe of the Right Outside Quarter approximately 130 feet landward of GREEN #1A EBB.
- **Reach J:**
 - A large shoal exists in the Right Outside Quarter commencing at approximately 2,235 feet landward from the start of the reach and continues for approximately 780 feet landward before extending into the Right Inside Quarter for approximately 260 feet and then into the Left Inside Quarter for approximately 175 feet. This shoal then tapers back to the Right Outside Quarter for approximately 1,570 feet landward.
 - Shoaling exists in the Right Outside Quarter at approximately 1,800 feet landward from GREEN B W/ LIGHT EBB and continues approximately 270 feet landward.
 - A spot shoal exists in the Right Inside Quarter at approximately 2,275 feet seaward from the end of the reach.
 - A spot shoal exists in the Right Outside Quarter at approximately 2,115 feet seaward from the end of the reach.
 - Shoaling exists in the Left Outside Quarter, Left Inside Quarter, and along the channel toe in the Right Outside Quarter, commencing at the end of the reach and continuing for approximately 220 feet seaward.
 - The Controlling Depth of -22.1 feet MLLW exists along the Right Outside Quarter approximately 3,270 feet landward of the beginning of the reach.
- **Reach K:**
 - Shoaling exists in the entirety of the anchorage except for the northeastern corner of the anchorage as well as the eastern boundary next to Reach D.
 - The Controlling Depth of -24.9 feet MLLW exists approximately 1,610 feet seaward of RED #18 W/ LIGHT FLOOD.
- **Reach L:**
 - Shoaling exists in the Right Outside Quarter commencing at approximately 535 feet landward of BUOY "ER" EBB and continues until approximately 230 feet landward of RED #2 EBB.
 - Shoaling exists in the Left Outside Quarter commencing at approximately 230 feet seaward of RED #2 EBB and continues until approximately 745 feet landward of the same.
 - The Controlling Depth of -14.5 feet MLLW exists at the approximate location of RED #2 EBB.
- **Reach M:**
 - Shoaling exists in the Left Outside Quarter, Left Insider Quarter, and Right Inside Quarter commencing at the approximate location of RED #6 FLOOD and continues until approximately 215 feet landward of RED #2 W/LIGHT EBB. Shoaling then extends to the entire width of the reach until approximately 470 feet landward of RED #4 W/LIGHT EBB. The shoal then tapers into the Left Outside Quarter and Right Outside Quarter until the end of the reach.
 - The Controlling Depth of -31.9 feet MLLW exists approximately 285 feet seaward of GREEN #3 W/LIGHT EBB.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE**• Reach N:**

- Edge shoals exist along the toe of the east, west, and southwest sides of the basin in the Left Outside Quarter, Left Inside Quarter, and Right Outside Quarter, respectively.
- A small shoal exists in the Left Inside Quarter at approximately 345 feet landward of GREEN / RED "RI" W/LIGHT EBB.
- The Controlling Depth of -34.6 feet MLLW exists in the Left Inside Quarter at approximately 345 feet landward of GREEN / RED "RI" W/LIGHT EBB.