

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER
(ER 1130-2-306)**

TO: The Record	FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090
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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
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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 1,725 feet seaward of the Brooklyn Bridge	File 181, Sheet 2 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 1,000 To 1,890	0.92	40	38.8	39.9	38.7	36.2
Reach B: From approximately 1,725 feet seaward of the Brooklyn Bridge to approximately 505 feet landward from the Manhattan Bridge	File 181, Sheets 2&3 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 1,000 To 1,380	0.68	40	16.1	41.1	40.0	33.3
Reach C: From approximately 505 feet landward from the Manhattan Bridge to approximately 600 feet seaward of the Williamsburg Bridge	File 181, Sheet 3 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 1,000 To 1,270	0.81	40	35.8	40.0	38.3	37.5
Reach D: From approximately 600 feet seaward of the Williamsburg Bridge to approximately 800 feet seaward of GREEN/RED BUOY 'B'	File 181, Sheets 3&4 of 10; 5 Nov. 2013 – 15 Jan. 2014	900	1.82	35	32.2	34.8	33.9	32.3
Reach E: From approximately 800 feet seaward of GREEN/RED BUOY 'B' to approximately 500 feet landward of Roosevelt Island	File 181, Sheets 4-6 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 550 To 1,000	2.49	35	28.0	38.8	35.7	32.6
Reach F: From approximately 500 feet landward of Roosevelt Island to approximately 1200 feet landward of Hell Gate Bridge	File 181, Sheet 6 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 650 To 850	1.23	35	30.0	34.7	33.0	30.7
Reach G: From approximately 1200 feet landward of Hell Gate Bridge to RED NUN #6	File 181, Sheets 6&7 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 795 To 1,100	1.60	35	31.9	35.3	35.1	27.0
Reach H: From RED NUN #6 to approximately 50 feet seaward of GREEN CAN #1A	File 181, Sheets 7-9 of 10; 5 Nov. 2013 – 15 Jan. 2014	1,000	3.58	35	33.4	36.1	34.8	25.1
Reach I: From approximately 50 feet seaward of GREEN CAN #1A to approximately 2,450 feet seaward of Throgs Neck Bridge	File 181, Sheets 9&10 of 10; 5 Nov. 2013 – 15 Jan. 2014	1,000	1.63	35	37.5	36.5	36.5	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 181, Sheets 4&5 of 10; 5 Nov. 2013 – 15 Jan. 2014	Varies 2,475 To 500	1.22	30	26.7	26.6	24.5	23.0

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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)				

REMARKS:

- All depths are in reference to Mean Lower Low Water (project originally authorized to Mean Low Water).
- The channel length is in nautical miles.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach A:**
 - Sporadic shoaling is present along the edges of the Right Outside and Left Outside Quarters for the full length of the reach extending into the quarters with a maximum width of approximately 150 feet. Approximately 4,050 feet landward of the beginning of Reach A, located in the Right Outside and Right Inside Quarters, shoaling extends into the middle of the quarters. The shoaling ranges in width from approximately 140 to 380 feet.
- **Reach B:**
 - Shoaling extends across the Right Outside Quarter approximately 900 feet seaward of the Brooklyn Bridge and extends landward for a length of approximately 470 feet.
 - Sporadic shoaling along the edge of the channel in the Left Outside Quarter begins approximately 800 feet seaward of the Brooklyn Bridge and continues approximately 3,500 feet landward along the channel to the end of the reach; the shoal has a maximum width of approximately 145 feet.
 - A shoal exists along the edge of the channel in the Right Inside Quarter approximately 360 feet landward of the Brooklyn Bridge and extends landward for a length of approximately 290 feet; the shoal has a maximum width of approximately 55 feet.
 - A shoal exists along the Right Outside Quarter approximately 1,350 feet seaward of the Brooklyn Bridge and extends landward for a length of approximately 140 feet; the shoal has a maximum width of approximately 80 feet..
- **Reach C:**
 - Shoaling is present along the edge of the Left Outside Quarter beginning at the start of the reach, approximately 650 feet landward of the Manhattan Bridge and sporadically continues landward for approximately 2,750 feet; the shoaling has a maximum width of approximately 150 feet.
 - A small spot shoal exists in the Right Outside Quarter approximately 2,500 feet landward of the beginning of the reach.
 - A small spot shoal exists in the Right Inside Quarter approximately 2,500 feet landward of the beginning of the reach.
- **Reach D:**
 - Spot shoals exist in the Left Outside and Left Inside Quarters approximately 170 feet landward of the Williamsburg Bridge; the shoals have a maximum width of 80 feet and a length of 130 feet.
 - Sporadic shoaling exists along the edge of the Left Outside Quarter beginning at the Williamsburg Bridge and continuing landward approximately 2,250 feet with a maximum width of approximately 65 feet.
 - Shoaling exists along the edge of the Right Outside Quarter beginning 3,770 feet landward of RED #18 WITH LIGHT and continuing landward approximately 715 feet with a maximum width of approximately 65 feet.
 - A small spot shoal exists in the Right Outside Quarter beginning 540 feet seaward of the end of the reach, and continuing landward approximately 72 feet with a maximum width of approximately 40 feet.
 - A small spot shoal exists in the Right Inside Quarter beginning 1,470 feet seaward of the end of the reach, and continuing landward approximately 80 feet with a maximum width of approximately 25 feet.
- **Reach E:**
 - Sporadic shoaling is present alongside the edge of the channel in the Left Outside Quarter and Right Outside Quarter beginning at the Queensboro Bridge and continuing landward for approximately 5,800 feet. The shoaling has a maximum width of 75 feet.
 - A spot shoal exists in the Right Outside Quarter beginning 730 feet seaward of the North end of Roosevelt Island, and continuing landward approximately 110 feet with a maximum width of approximately 65 feet.

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**MINIMUM DEPTHS IN
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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)				

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EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach F:**
 - A shoal is present alongside the edge of the channel in the Left Outside Quarter located approximately 1800 feet seaward from the Robert F. Kennedy Bridge and continues landward for approximately 230 feet with a maximum width of 65 feet.
 - Shoaling is present alongside the edge of the channel in the Left Outside Quarter beginning at the Robert F. Kennedy Bridge. The shoaling has a maximum width of 80 feet and continues landward along the edge of the channel for approximately 1,100 feet.
 - Shoaling is present alongside the edge of the channel in the Right Outside Quarter located approximately 630 feet seaward from the Robert F. Kennedy Bridge. It has a maximum width of 100 feet and continues seaward along the edge of the channel for approximately 1,400 feet.
 - Shoaling is present alongside the edge of the channel in the Right Outside Quarter beginning at the Robert F. Kennedy Bridge. The shoaling has a maximum width of 50 feet and continues landward along the edge of the channel for approximately 2,600 feet.
 - A spot shoal exists in Left Inside Quarter approximately 1,700 feet seaward of Robert F. Kennedy Bridge.
 - A spot shoal exists in Right Inside Quarter approximately 2,600 feet landward of Robert F. Kennedy Bridge.
 - Sporadic edge shoaling exists in the Right Outside Quarter approximately 1,000 feet seaward of Robert F. Kennedy Bridge
- **Reach G:**
 - A small edge shoal exists in the Right Outside Quarter approximately 3,700 feet landward from the Robert F. Kennedy Bridge and extending 140 feet landward with a maximum width of 20 feet.
 - A small edge shoal exists in the Left Outside Quarter approximately 1,400 feet landward of GREEN/RED ER JUNCTION.
- **Reach H:**
 - Sporadic edge shoaling is present alongside the edge of the channel in the Right Outside Quarter begins approximately 800 feet landward from GREEN CAN #1 and continues landward for approximately 900 feet with a maximum width of 45 feet.
 - An edge shoal exists in the Left Outside Quarter approximately 750 feet landward from GREEN CAN #1. It has a maximum width of 45 feet and continues landward for approximately 160 feet.
 - An edge shoal exists in the Right Outside Quarter approximately 1,700 feet seaward of GREEN CAN #5 and continues landward for approximately 600 feet.
 - Isolated spot shoals exist in the Right Inside and Right Outside Quarters approximately 1,700 feet seaward of GREEN CAN #3.
 - Sporadic edge shoals exists in the Left Outside Quarter approximately 2,240 feet seaward of GREEN CAN #3 and continues approximately 800 feet landward.
 - Sporadic edge shoals exists in the Right Outside Quarter approximately 300 feet landward of GREEN CAN #3 and continues approximately 1,500 feet landward.

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		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)				

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EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach I:**
 - No shoaling is present.
- **Reach J:**
 - A large shoal extends across the Right Outside, the Right Inside, and the Left Inside Quarters beginning approximately 1,150 feet landward of the beginning of the reach. The shoals width is 800 feet and it continues landward for approximately 1,900 feet.
 - A 150 feet wide shoal fills the Right Outside Quarter from 900 feet landward of Mooring Ball and continuous landward for approximately 500 feet.
 - An edge shoal exists in the Left Outside Quarter approximately 3,100 feet landward from the beginning of the reach. It has a maximum width of 120 feet and continues landward for approximately 375 feet.
 - Shoals exist at the end of the reach in the Right Outside, the Left Inside, and the Left Outside Quarters.
 - A spot shoal exists in the Right Outside Quarter approximately 2,150 feet seaward of the end of the reach.

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**MINIMUM DEPTHS IN
CHANNEL
(feet)**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			MINIMUM DEPTHS IN CHANNEL (feet)
		WIDTH (feet)	Area (Acres)	DEPTH (feet)	
Reach K: Irregular Area from approximately 600 feet seaward of the Williamsburg Bridge to the UN International School (Manhattan)	File 181, Sheet 3&4 of 10; 5 Nov. 2013 – 15 Jan. 2014	Irregular	25.2	35	24.0

REMARKS:

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EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach K:**
 - Shoaling is present across the majority of the channel.