

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

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DATE 15 February 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:
Raritan River, New Jersey

**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 (n. miles)	DEPTH (feet)			
MAIN CHANNEL Reach A: Great Beds Reach From approximately GREEN CAN #5 EBB to approximately GREEN CAN #3 EBB	File 532; Pages 2-3 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300-1,025	0.63	25	21.5	23.3	22.2
MAIN CHANNEL Reach B: South Amboy Reach From approximately GREEN CAN #3 EBB to New Jersey C.R.R. Bridge	File 532; Pages 3-5 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300-380	1.17	25	22.1	22.6	22.7
MAIN CHANNEL Reach C: Sandy Point Reach From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge	File 532; Pages 5-6 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300-370	0.92	25	21.5	18.2	23.3
MAIN CHANNEL Reach D: Keasbey Reach From HWY 35 Victory Bridge to approximately 330 feet landward of GREEN CAN #13 EBB	File 532; Pages 6-8 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300-565	1.07	25	6.8	13.2	18.7
MAIN CHANNEL Reach E: Red Root Reach From approximately 330 feet landward of GREEN CAN #13 EBB to approximately 1,040 feet landward of GREEN BUOY #17 W/LIGHT FLOOD	File 532; Pages 8-10 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300	0.96	25	12.5	17.2	10.8
MAIN CHANNEL Reach F: Turning Basin From approximately 1,040 feet seaward of GREEN BUOY #17 W/LIGHT FLOOD to approximately 520 feet landward of GREEN BUOY #25 W/LIGHT FLOOD	File 532; Page 10 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300-600	0.31	25	0.7	5.0	10.8
SOUTH CHANNEL Reach J: From approximately 250 feet landward of GREEN CAN #13 EBB to approximately 2,360 feet landward of GREEN CAN #13 EBB	File 532; Pages 8 and 11 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300-430	0.39	25	4.2	4.2	4.0
SOUTH CHANNEL Reach K: From approximately 2,360 feet landward of GREEN CAN #13 EBB to approximately 3,800 feet landward of GREEN CAN #13 EBB	File 532; Page 11 of 11; 1-2, 6-7, 21-22, 24, 27-30 Nov 2017	300	0.20	25	7.0	3.0	2.4

REMARKS:

- All depths are relative to the Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.
- Right Outside Quarter (ROQ), Left Outside Quarter (LOQ) and Middle Half (MH)

MAIN CHANNEL**Reach A:**

- Shoaling exists throughout the width of the channel from the approximate location of GREEN CAN #5 and continues landward for approximately 1,150 feet. Spot shoals then exist throughout the remainder of the reach, gradually becoming a solid band of shoaling in the LOQ, ROQ, and partially extending into the MH.
- In Reach A, the controlling depths of -21.5 feet MLLW exist in the LOQ located at approximately 1,250 feet seaward of GREEN CAN #3.

Reach B:

- Sporadic shoaling exists throughout the width of the reach, starting at the location of GREEN CAN #3 and continues landward for approximately 4,520 feet.
- Sporadic shoaling exists throughout the width of the reach, starting at approximately 930 feet seaward of NEW JERSEY C.R.R. BRIDGE and continues landward to the end of the reach at the NEW JERSEY C.R.R. BRIDGE
- In Reach B, the controlling depth of -22.1 feet MLLW exists in the LOQ located at approximately 90 feet landward of GREEN CAN #3.

Reach C:

- Sporadic shoaling exists in the ROQ and MH, starting at the NEW JERSEY C.R.R. BRIDGE and continues landward for approximately 580 feet.
- Shoaling exists along the channel's toe in the LOQ, starting at approximately 725 feet seaward of GREEN CAN #7 and continues landward for approximately 2,580 feet.
- In Reach C, the controlling depth of -18.2 feet MLLW exists in the MH located at approximately 260 feet landward of NEW JERSEY C.R.R. BRIDGE.

Reach D:

- Shoaling exists in the LOQ, starting at approximately 90 feet landward of HWY 35 VICTORY BRIDGE and continues for the entire length of the reach. The shoaling starts encroaching into the MH and ROQ starting at approximately 210 feet landward of GREEN CAN #11 and continues across the entire width of the channel for the remainder of the reach.
- In Reach D, the controlling depth of -6.8 feet MLLW exists in the LOQ located at approximately 285 feet landward of GREEN CAN #13.

Reach E:

- Shoaling exists across the majority of the reach.
- In Reach E, the controlling depth of -10.8 feet MLLW exists in the ROQ located at approximately 255 feet seaward of GREEN BUOY #17.

Reach F:

- The reach is predominantly shoaled except for a navigable path where project depth is available in parts of the ROQ, MH and LOQ, starting from approximately 985 feet seaward of GREEN BUOY #25 W/LIGHT continues approximately 1,450 feet landward, with a maximum width of approximately 255 feet.
- In reach F, the controlling depth of -0.7 feet MLLW exists in the LOQ located at approximately 360 feet seaward of GREEN BUOY #25.

SOUTH CHANNEL**Reach J:**

- Shoaling exists across the entire width and length of this reach.
- The controlling depth of -4.0 feet MLLW exists along the ROQ approximately 1,800 feet landward of GREEN CAN #13.

Reach K:

- Shoaling exists across the entire width and length of this reach.
- The controlling depth of -2.4 feet MLLW exists along the ROQ approximately 3,605 feet landward of GREEN CAN #13.

