

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

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DATE 09 February 2021

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 20 feet seaward of GREEN CAN #3 EBB.	File 5014/N1; Pages 2-3 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300-1,025	0.63	25	17.0	20.4	19.6
MAIN CHANNEL Reach B: South Amboy Reach From approximately 20 feet seaward of GREEN CAN #3 EBB to New Jersey C.R.R. Bridge.	File 5014/N1; Pages 3-5 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300-380	1.17	25	18.5	15.4	18.0
MAIN CHANNEL Reach C: Sandy Point Reach From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge.	File 5014/N1; Pages 5-6 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300-370	0.92	25	21.0	13.4	16.0
MAIN CHANNEL Reach D: Keasbey Reach From HWY 35 Victory Bridge to approximately 375 feet landward of GREEN CAN #13 EBB.	File 5014/N1; Pages 6-8 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300-565	1.07	25	6.6	11.0	17.1
MAIN CHANNEL Reach E: Red Root Reach From approximately 375 feet landward of GREEN CAN #13 EBB to approximately 1070 feet landward of GREEN #17 W/LIGHT SLACK.	File 5014/N1; Pages 8-10 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300	0.96	25	11.5	16.0	5.9
MAIN CHANNEL Reach F: Turning Basin From approximately 1,070 feet landward of GREEN #17 W/LIGHT SLACK and extends approximately 1,900 feet landward.	File 5014/N1; Page 10 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300-600	0.31	25	0.5	5.9	9.6
SOUTH CHANNEL Reach J: From approximately 375 feet landward of GREEN CAN #13 EBB to approximately 2,340 feet landward of GREEN CAN #13 EBB.	File 5014/N1; Pages 8 and 11 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300-430	0.39	25	4.3	4.2	3.9
SOUTH CHANNEL Reach K: From approximately 2,340 feet landward of GREEN CAN #13 EBB to approximately 1430 feet landward of the beginning of this reach.	File 5014/N1; Page 11 of 11; 18, 21-22, 28-29 Dec 2020 and 4-6 Jan 2021	300	0.20	25	7.0	3.3	2.5

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 majority of this reach.
- The controlling depth of -17.0 feet MLLW exists in the LOQ along the channel's toe at the end of this reach.

Reach B:

- The majority of shoaling exists channel wide at the beginning of this reach.
- The controlling depth of -15.4 feet MLLW exists in the MH at approximately 30 feet seaward of NEW JERSEY C.R.R. BRIDGE.

Reach C:

- Sporadic shoaling exists in the ROQ, MH, and LOQ of this reach.
- The controlling depth of -13.4 feet MLLW exists in the MH at approximately 45 feet landward of NEW JERSEY C.R.R. BRIDGE.

Reach D:

- The majority of shoaling exists at the end of this reach.
- Shoaling exists throughout the LOQ and the ROQ of this reach.
- The controlling depth of -6.6 feet MLLW exists in the LOQ along the channel's toe at the end of this reach.

Reach E:

- Shoaling exists across the majority of this reach.
- The controlling depth of -5.9 feet MLLW exists in the ROQ at approximately 215 feet landward of GREEN #17 W/LIGHT SLACK.

Reach F:

- Shoaling exists across the majority of this reach.
- The controlling depth of -0.5 feet MLLW exists in the LOQ along the channel's toe at approximately 1,200 feet seaward of the beginning of this reach.

SOUTH CHANNEL**Reach J:**

- Shoaling exists channel wide across this entire reach.
- The controlling depth of -3.9 feet MLLW exists in the ROQ at approximately 260 feet seaward of the end of the reach.

Reach K:

- Shoaling exists channel wide across this entire reach.
- The controlling depth of -2.5 feet MLLW exists in the ROQ at approximately 105 feet seaward of the end of the reach.