

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

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DATE 4 March 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:**  
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)			
<b>MAIN CHANNEL Reach A: Great Beds Reach</b> From approximately GREEN CAN #5 EBB to approximately GREEN CAN #3 EBB	File 4401; Pages 2&3 of 11; 19,21,22,26, 27,29,30 Oct 2015	300-1,025	0.63	25	23.4	24.1	23.6
<b>MAIN CHANNEL Reach B: South Amboy Reach</b> From approximately GREEN CAN #3 EBB to New Jersey C.R.R. Bridge	File 4401; Pages 3,4&5 of 11; 19,21,22,26, 27,29,30 Oct 2015	300-380	1.17	25	23.8	22.1	23.3
<b>MAIN CHANNEL Reach C: Sandy Point Reach</b> From New Jersey C.R.R. Bridge to HWY 35 Victory Bridge	File 4401; Pages 5&6 of 11; 19,21,22,26, 27,29,30 Oct 2015	300-370	0.92	25	20.7	18.5	23.7
<b>MAIN CHANNEL Reach D: Keasby Reach</b> From HWY 35 Victory Bridge to approximately 333 feet landward of GREEN CAN #13 EBB	File 4401; Pages 6,7&8 of 11; 19,21,22,26, 27,29,30 Oct 2015	300-565	1.07	25	7.1	12.6	19.0
<b>MAIN CHANNEL Reach E: Red Root Reach</b> From approximately 333 feet landward of GREEN CAN #13 EBB to approximately 1,120 feet landward of GREEN BUOY #17 W/LIGHT EBB	File 4401; Pages 8,9&10 of 11; 19,21,22,26, 27,29,30 Oct 2015	300	0.96	25	13.0	17.1	15.0
<b>MAIN CHANNEL Reach F: Turning Basin</b> From approximately 1,120 feet seaward of GREEN BUOY #17 W/LIGHT EBB to approximately 570 feet landward of GREEN BUOY #25 W/LIGHT EBB	File 4401; Pages 10 of 11; 19,21,22,26, 27,29,30 Oct 2015	300-600	0.31	25	2.1	6.0	16.7
<b>SOUTH CHANNEL Reach J:</b> From approximately 230 feet landward of GREEN CAN #13 EBB to approximately 2,590 feet landward of GREEN CAN #13 EBB	File 4401; Pages 8 & 11 of 11; 19,21,22,26, 27,29,30 Oct 2015	300-430	0.39	25	4.6	4.5	4.3
<b>SOUTH CHANNEL Reach K:</b> From approximately 2,590 feet landward of GREEN CAN #13 EBB to approximately 3,790 feet landward of GREEN CAN #13 EBB	File 4401; Page 11 of 11; 19,21,22,26, 27,29,30 Oct 2015	300	0.20	25	6.8	3.0	2.3

**REMARKS:**

- All depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

**MAIN CHANNEL**

- **Reach A:** Widespread shoaling exists across the width of the channel from the beginning of the Reach to approximately 5 feet seaward of RED BELL #2 EBB.  
A spot shoal exists in the left side of the Middle Half beginning approximately 150 feet seaward of RED BELL #2 EBB and extends approximately 35 feet landward of the same buoy with a maximum width of approximately 35 feet.  
A group of spots shoals exist in the Middle Half and Right Outside Quarter beginning approximately 885 feet landward of RED BELL #2 EBB extending approximately 960 feet landward.  
Shoaling exists in the Left Outside Quarter and Middle Half approximately 2,000 feet seaward of GREEN CAN #3 EBB and extends approximately 1,680 feet landward with a maximum width of approximately 125 feet.  
A group of small shoals exist across the channel beginning approximately 320 feet seaward of GREEN CAN #3 EBB extending approximately 510 feet landward.
- **Reach B:** Shoals exist along the right half of the Right Outside Quarter beginning approximately 450 feet landward of RED DAY BEACON LIGHT #4 EBB extending approximately 1,625 feet landward with a maximum width of 42 feet.  
Two shoals exist along the Left Outside Quarter beginning approximately 1,610 feet landward of GREEN CAN #3 EBB extending approximately 510 feet landward with a maximum width of 13 feet.  
Several small spot shoals exist in the Middle Half and both Outside Quarters beginning approximately 830 feet seaward of JUNCTION LIGHTED BUOY RED/GREEN EBB extending approximately 2,160 feet landward.  
Shoaling exists along the channel toe in the Right Outside Quarter commencing approximately 1,740 feet seaward of RED LIGHTED BUOY #6 EBB and continues approximately 860 feet landward having a maximum width of approximately 75 feet.  
Shoaling exists throughout most of the Middle Half commencing approximately 1,740 feet seaward of RED LIGHTED BUOY #6 EBB and continues approximately 700 feet landward having a maximum width of approximately 110 feet. Additional shoaling exists in the Middle Half beginning approximately 85 feet seaward of New Jersey C.C.R. Bridge and continues approximately 75 feet landward.  
Shoaling exists along the channel toe in the Left Outside Quarter beginning approximately 1,740 feet seaward of RED LIGHTED BUOY #6 EBB and continues approximately 535 feet landward having a maximum width of approximately 50 feet.
- **Reach C:** Shoaling exists in the Right Outside Quarter beginning approximately 640 feet seaward of RED LIGHTED BUOY #6 EBB and extends approximately 360 feet landward with a maximum width of approximately 38 feet.  
Shoaling exists in the Middle Half approximately 670 feet seaward of RED LIGHTED BUOY #6 EBB and extends approximately 290 feet landward with a maximum width of approximately 60 feet.  
Shoaling exists in the Left Outside Quarter approximately 715 feet seaward of GREEN CAN #5 EBB and extends approximately 190 feet landward with a maximum width of approximately 20 feet.  
Shoaling begins in the Left Outside Quarter partially extending into the Middle Half beginning approximately 690 feet seaward of GREEN CAN #7 EBB and continues approximately 120 feet seaward of Highway 35 Victory Bridge with a maximum width of approximately 80 feet.
- **Reach D:** Shoaling exists in the Left Outside Quarter beginning at Highway 35 Victory Bridge, covering the majority of the width of the quarter for the entire length of this reach, and also extends into the Middle Half approximately 20 feet landward of GREEN CAN #11 EBB and widens across the entire channel from approximately 465 feet seaward of GREEN CAN #13 EBB to the end of the reach. This same shoal extends up to 67 feet into the Middle Half beginning approximately 1165 feet seaward of GREEN CAN #9 EBB and extends landward in the Middle Half for approximately 800 feet.  
Shoaling exists in the Right Outside Quarter approximately 880 feet seaward of GREEN CAN #9 EBB and extends approximately 2,070 feet landward with a maximum width of approximately 55 feet.  
Shoaling exists in the Right Outside Quarter approximately 600 feet seaward of GREEN CAN #11 EBB and extends approximately 800 feet landward with a maximum width of approximately 85 feet.  
Shoaling exists in the Right Outside Quarter approximately 385 feet landward of GREEN CAN #11 EBB and extends approximately 565 feet landward with a maximum width of approximately 15 feet.  
A spot shoal begins in the Right Outside Quarter approximately 950 feet seaward of GREEN CAN #13 EBB and is approximately 67 feet long and 33 feet wide.

- **Reach E:** Shoaling exists across the majority of the reach.
- **Reach F:** The reach is predominantly shoaled except for a navigable path having a maximum width of approximately 250 feet where project depth is available in parts of the Right Outside Quarter, the Middle Half and the Left Outside Quarter starting from approximately 970 feet seaward of GREEN BUOY #25 W/LIGHT EBB to approximately 55 feet seaward of the end of the reach. Debris and pilings exist along the Left outside Quarter in the vicinity of and landward of GREEN BUOY #25 W/LIGHT EBB, and old docks and pilings exist along the Right Outside Quarter.

**SOUTH CHANNEL**

- **Reach J:** Shoaling exists across the entire width and length of this reach.
- **Reach K:** Shoaling exists across the entire width and length of this reach.