

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

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DATE: 13 October 2017

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:
Shrewsbury 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 (nmiles)	DEPTH (feet)			
Reach A: Bay to Highlands: Begins in Sandy Hook Bay approximately 190 feet seaward of RED NUN #4 EBB; Ends approximately 550 feet landward of the Route 36 Bridge.	Map 433 pgs 1 thru 5 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	300-415	1.83	12	1.2	6.7	7.2
Reach B: Junction of North and South Branch: Begins approximately 550 feet landward of the Route 36 Bridge; Ends at the junction between the North and South Branches, approximately 915 feet landward RED NUN #12 EBB.	Map 433 pgs 5 & 6 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150	0.42	9	11.2	11.4	9.7
Reach C: Buoy #38: Begins at junction between the North and South Branches of the project approximately 915 feet landward of RED NUN #12 EBB; Ends approximately at RED LIGHT #38 EBB.	Map 433 pgs 5, 6 & 16 thru 22 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150 - 620	3.60	9	5.1	4.2	5.0
Reach D: Sands Point: Begins approximately at RED LIGHT #38 EBB; Ends at approximately 40 feet landward of RED LIGHT #40 EBB at Sands Point.	Map 433 pgs 22 & 23 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150	0.49	9	6.6	7.0	2.9
Reach E: Pleasure Bay Bridge: Begins at approximately 40 feet landward of RED LIGHT #40 EBB; Ends at Pleasure Bay Bridge approximately 700 feet landward of NO WAKE BUOY EBB.	Map 433 pgs 23 & 24 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150-230	0.65	9	6.2	7.0	5.2
Reach F: Upstream Project Limit: Begins at Pleasure Bay Bridge approximately 700 feet landward of NO WAKE BUOY EBB; Ends at approximately 570 feet landward of NO WAKE BUOY FLOOD at the upstream limit of the project.	Map 433 pgs 24 & 25 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150-260	0.75	9	0.9	0.5	0.5

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Reach G: Oceanic Bridge: Begins at the junction between the North and South Branches approximately 915 feet landward of RED NUN #12 EBB; Ends at Oceanic Bridge approximately 620 feet landward of RED NUN #16 FLOOD.	Map 433 pgs 6 thru 9 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150-230	1.85	6	2.0	2.6	0.9
Reach H: Red Bank: Begins at Oceanic Bridge approximately 620 feet landward of RED NUN #16 FLOOD; Ends approximately 2,400 feet landward of RED NUN #24 at Red Bank.	Map 433 pgs 9 thru 15 of 25; 22, 30 May 2017 and 1, 5-7, 20-23, 26 June 2017	150-270	3.20	6	3.7	4.3	4.4

REMARKS:

- All reported depths are relative to C.O.E. Mean Low Water datum.
- Channel reach lengths are in nautical miles.

SHREWSBURY RIVER, NJ

- **Reach A:** Shoaling exists in the Right Outside Quarter of the channel commencing at the beginning of the reach and continuing approximately 705 feet landward, with a maximum width of approximately 30 feet. Shoaling exists in the Left Outside Quarter of the channel commencing at the beginning of the reach and extending to approximately 1,410 feet landward, with a maximum width of approximately 105 feet. Intermittent shoaling exists in the Right Outside Quarter of the channel, beginning approximately 80 feet landward of RED NUN #6 SLACK and ending approximately 785 feet seaward of RED NUN #10 FLOOD. Intermittent shoals exist in the Right and Left Outside Quarters, as well as the Middle Half of the channel, approximately 850 feet landward of GREEN BUOY #11 EBB. A shoal exists across the entire width of the channel beginning approximately 1,575 feet seaward of GREEN BUOY W/ LIGHT #11A EBB and continues until approximately 550 feet seaward of the same.
- **Reach B:** No shoaling exists in this reach.
- **Reach C:** Shoaling exists across the entire width of the channel, beginning approximately 260 feet seaward of the RED-GREEN BUOY W/ LIGHT "NS" FLOOD and continues to approximately 170 feet landward of the same. Intermittent shoaling exists along the channel's toe in the Left Outside Quarter of the channel, beginning approximately 1,000 feet seaward of RED NUN W/ LIGHT #28 EBB and continues approximately 765 feet landward of the same. Shoaling exists throughout the entire width of the channel beginning approximately 885 feet seaward of GREEN CAN #29 EBB and continues 800 feet landward of RED NUN W/ LIGHT #30 EBB. Shoaling exists in the Right Outside Quarter of the channel, beginning approximately 375 feet seaward of RED NUN #30A EBB and continues to approximately 200 feet landward of the same. Intermittent shoaling exists along the channel's toe in the Left Outside Quarter, beginning approximately 125 feet seaward of GREEN CAN #29A EBB and continuing approximately 375 feet landward of GREEN LIGHT W/ LIGHT #31 EBB. Shoaling exists in much of the width of the Left Outside Quarter of the channel, beginning approximately 250 feet landward of GREEN CAN #33 EBB and continues until the end of the reach, with a maximum width of approximately 50 feet.
- **Reach D:** Shoaling exists in the Left Outside Quarter of the channel, extending into the Middle Half, throughout the majority of the length of the reach. Shoaling exists in the Right Outside Quarter of the channel, beginning approximately 1,000 feet seaward of RED LIGHT #40 EBB, extending across the width of the channel approximately 400 feet seaward of the end of the reach and continues to the end of the reach.

- **Reach E:** Shoaling exists across the majority of the Right and Left Outside Quarters and portions of the Middle Half of the channel, intermittently extending across the entire width of the channel, throughout the length of the reach.
- **Reach F:** Shoaling exists across the majority of the channel width from the start of the reach at the Pleasure Bay Bridge and extends until the end of the reach at the upstream limit of the project. Project depth becomes available intermittently in the Middle Half and Right Outside Quarter of the channel, from the beginning of the reach to approximately 320 feet seaward of GREEN CAN #49 FLOOD.
- **Reach G:** Intermittent shoaling exists in the Middle Half of the channel, approximately 65 feet landward of RED NUN #2 EBB until approximately 340 feet landward of the same. Shoaling exists in the Right Outside Quarter of the channel, extending into the Middle Half, beginning in the approximate vicinity of RED NUN #4 FLOOD. Shoaling continues until approximately 55 feet landward of RED NUN #6 EBB, with a maximum width of approximately 115 feet. Shoaling exists in the Left Outside Quarter and Middle Half of the channel, approximately 975 feet landward of RED NUN #6 EBB. Shoaling exists in the Left Outside Quarter of the channel, extending into the Middle Half and Right Outside Quarter, beginning approximately 110 feet seaward of GREEN W/ LIGHT #11 SLACK, continuing approximately 175 feet landward of RED NUN W/ LIGHT #14 EBB. Shoaling exists in the Right Outside Quarter, partially extending into the Middle Half, commencing approximately 350 feet seaward of GREEN CAN #15 FLOOD and continuing approximately 745 feet landward. Intermittent shoaling exists in the Left and Right Outside Quarters of the channel, beginning approximately 440 feet seaward of RED NUN #16 FLOOD, extending partially into the Middle Half and continues to a point approximately 260 feet seaward of the end of the reach.
- **Reach H:** Shoaling exists along the channel's toe in the Left Outside Quarter and extends partially into the Middle Half, beginning approximately 260 feet seaward of GREEN CAN #19 EBB and continues until approximately 215 feet landward of the same. Shoaling exists in the Left Outside Quarter of the channel, beginning approximately 400 feet landward of GREEN CAN W/ LIGHT #21 EBB and extends across much of the width of the channel, approximately 650 feet from the beginning of the shoal, with areas of project depth available intermittently in the Middle Half of the channel, to approximately 500 feet seaward of GREEN CAN #23 EBB. Shoaling then extends fully across the entire width of the channel for approximately 1,000 feet where it then tapers to the Middle Half and Right Outside Quarter of the channel to approximately 540 feet landward of RED NUN #24 EBB. Intermittent shoaling exists in the Left Outside Quarter and portions of the Middle Half of the channel, beginning approximately 545 feet landward of RED NUN #24 EBB and continues until approximately 850 feet seaward of the end of the reach. Shoaling exists in the Right Outside Quarter of the reach approximately 1,190 feet seaward of the end of the reach and extends across the entire width of the channel approximately 505 feet seaward of the same. Shoaling continues across the entire width of the channel to the end of the reach.