

**REPORT OF CHANNEL CONDITIONS
(FOR CHANNELS 400 FEET WIDE OR GREATER)**

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DATE 26 February 2021

TO: The Record

FROM: U.S. Army Corps of Engineers
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RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack & Passaic Rivers, NJ; Newark Bay – Main Channel

MINIMUM DEPTHS IN EACH ¼ WIDTH OF CHANNEL ENTERING FROM SEAWARD

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	

NEWARK BAY MAIN CHANNEL of Newark Bay, Hackensack & Passaic Rivers Navigation Channels Project

Reach A – Main Channel South: Begins at the approximate location of RED #2 W/ LIGHT EBB and ends at a point approximately 85 feet landward of RED #10 W/ LIGHT EBB.	File #5022, Pgs 1 - 3 of 8; 20, 21, 25, 26, 28, 29 Jan, 3 Feb 2021	1,000 – 2,360	1.28	50	48.0	49.1	50.2	43.7
Reach B – Main Channel Middle (South): Begins at a point approximately 85 feet landward of RED #10 W/ LIGHT EBB and ends at a point approximately 470 feet seaward of RED NUN #16 EBB.	File #5022, Pgs 3 & 4 of 8; 20, 21, 25, 26, 28, 29 Jan, 3 Feb 2021	1,655 - 800	0.87	50	42.2	43.8	45.0	41.1
Reach B1 - Main Channel Middle (North): Begins at a point approximately 470 feet seaward of RED NUN #16 EBB and ends at the approximate location of GREEN CAN #19A EBB.	File #5022, Pgs 4 & 5 of 8; 20, 21, 25, 26, 28, 29 Jan, 3 Feb 2021	565-800	0.54	40	38.4	40.0	39.3	36.9
Reach C - Main Channel North: From the approximate location of GREEN CAN #19A EBB, to a point approximately 100 feet seaward of RED NUN #2 FLOOD.	File #5022, Pgs 5 - 8 of 8; 20, 21, 25, 26, 28, 29 Jan, 3 Feb 2021	500-1,030	1.37	35	16.3	21.4	15.0	5.3

REMARKS:

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

NEWARK BAY – MAIN CHANNEL

- **Reach A:** Majority of shoaling exists in the Right Outside Quarter of the first half of this reach and also at the end of this reach. Sporadic shoaling exists in the Left Outside Quarter encroaching into the Left Inside Quarter in the vicinity of CAN #1 FLOOD. The controlling depth of -43.7 feet MLLW is located in the Right Outside Quarter approximately 55 feet landward of RED #10 W/LIGHT EBB.
- **Reach B:** Shoaling exists in the Right Outside Quarter, encroaching into the Right Inside Quarter at the beginning of this reach. Sporadic shoaling exists in the Left Outside Quarter throughout much of the reach. Shoaling exists across the full channel width at the end of this reach. The controlling depth of -41.1 feet MLLW is located in the Right Outside Quarter approximately 855 feet landward of RED #10 W/LIGHT EBB.
- **Reach B1:** Shoaling exists in the Right Outside Quarter, encroaching into the Right Inside Quarter, for much of this reach. Sporadic shoaling exists in the Left Outside Quarter of this reach. The controlling depth of -36.9 feet MLLW is located in the Right Outside Quarter at approximately the end of this reach.

- **Reach C:** Much of this reach contains shoaling along the channel's toe until the N.J. TURNPIKE BRIDGE. Thence shoaling exists throughout much of the channel's width through the channel bend. The controlling depth of -5.3 feet MLLW is located along the channel's toe at the final bend of this reach, approximately 490 feet landward of the RED NUN #24 FLOOD.