

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

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DATE 17 April 2023

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 and Port Newark Channels

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 AND PORT NEWARK CHANNELS of Newark Bay, Hackensack & Passaic Rivers Navigation Channels Project								
Partial Reach A – Main Channel South: Survey coverage begins approximately 480 feet seaward RED #8 EBB and ends at the end of the reach at a point approximately 40 feet landward of RED #10 W/ LIGHT EBB.	File #5287/N2/N3 Pgs. 6 & 7 of 7. 20-22,27 MARCH 2023	1,000 – 2,360	1.28	50	48.4	52.5	52.0	41.5
Reach B – Main Channel Middle (South): Begins at a point approximately 40 feet landward of RED #10 W/ LIGHT EBB and ends at a point approximately 555 feet seaward of RED NUN #16 FLOOD.	File #5287/N2/N3 Pgs. 4 - 6 of 7. 20-22,27 MARCH 2023	1,655 - 800	0.87	50	46.5	49.4	49.6	39.6
Reach B1 - Main Channel Middle (North): Begins at a point approximately 555 feet seaward of RED NUN #16 FLOOD and ends at the approximately 385 feet seaward of RED #20 W/LIGHT FLOOD.	File #5287/N2/N3 Pgs 3 & 4 of 7. 20-22,27 MARCH 2023	565-800	0.54	40	38.2	37.9	38.7	39.5
Partial Reach C - Main Channel North: Survey coverage exists from approximately 385 feet seaward of RED #20 W/LIGHT FLOOD and ends at a point approximately 100 feet landward of same.	File #5287/N2/N3 Pgs 3 of 7. 20-22,27 MARCH 2023	500-1,030	1.37	35	32.8	36.7	35.2	29.4
Reach D - Port Newark Branch Reach: Begins approximately 80 feet landward of GREEN #17 W/LIGHT EBB and extends to a point approximately 770 feet landward of GREEN #3 EBB.	File #5287/N2/N3 Sheet 2 & 3 of 7; 20-22,27 MARCH 2023	400-1,785	0.38	40	39.1	38.5	35.8	33.8
Partial Reach E - Port Newark Inshore Reach (East): Survey coverage begins approximately 770 feet landward of GREEN #3 EBB and survey extends as far as approximately 915 feet landward from the start of the reach.	File #5287/N2/N3 Sheet 2 of 7. 20-22,27 MARCH 2023	400	0.90	40	36.1	39.4	40.8	38.9

REMARKS:

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

NEWARK BAY – MAIN CHANNEL

- **Partial Reach A:** Shoaling exists in the Right Outside Quarter starting near the beginning of the area surveyed extending to the end of the reach. Shoaling exists in the Left Outside Quarter near the beginning of the survey coverage. The controlling depth of -41.5 feet MLLW is located in the Right Outside Quarter along the outside edge at the end of the reach.
- **Reach B:** Shoaling exists in the Right Outside Quarter extending most of the length of the reach. Shoaling exists in the Left Outside Quarter about halfway down the length of the reach. The controlling depth of -39.6 feet MLLW is located in the Right Outside Quarter approximately 570 feet landward from the start of the reach along the outside edge.
- **Reach B1:** Shoaling exists in the Left Outside Quarter, encroaching into the Left Inside Quarter, for the first 1,100 feet of this reach. Sporadic shoaling exists in the Right Inside Quarter at the beginning 500 feet from the beginning of the reach extending 450 feet along the center line. The controlling depth of -37.9 feet MLLW is located in the Left Inside Quarter near the beginning of the reach.
- **Partial Reach C:** The controlling depth of -29.4 feet MLLW is located along outside edge of the Right Outside Quarter approximately 70 feet landward of the beginning of this partial reach. Shoaling also exists along the Left Outside Quarter.
- **Reach D:** Shoaling exists throughout the Right Outside Quarter, extending into the Right Inside Quarter. The controlling depth of -33.8 feet MLLW exists in the Right Outside Quarter, near the channel's toe, at a point approximately 270 feet landward from the beginning of the reach.
- **Partial Reach E:** Shoaling exists along Left Outside Quarter extending into the Left Inside Quarter near the beginning of this partial reach. The controlling depth of -36.1 feet MLLW exists along the outside edge of the Left Outside Quarter, approximately 150 feet seaward from the start of the partial reach.