

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

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TO: The Record

FROM: U.S. Army Corps of Engineers
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RIVER/HARBOR NAME AND STATE: Newark Bay, Hackensack & Passaic Rivers, New Jersey - Main Channel and Port Newark

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 and Port Newark of Newark Bay, Hackensack & Passaic Rivers Navigation Channels Project								
Reach A – Main Channel South: Begins approximately 90 feet landward RED #2 W/ LIGHT EBB and ends at a point approximately 115 feet landward of RED #10 W/ LIGHT EBB.	File 5387/D/N1/N3 Pgs. 2 - 6 of 12. 12 – 14 DEC 2023	1,000 – 2,360	1.28	50	48.5	49.5	50.8	40.9
Reach B – Main Channel Middle (South): Begins at a point approximately 115 feet landward of RED #10 W/ LIGHT EBB and ends at a point approximately 540 feet seaward of RED NUN #16 SLACK.	File 5387/D/N1/N3 Pgs. 6 - 8 of 12. 12 – 14 DEC 2023	1,655 - 800	0.87	50	44.1	46.4	48.7	38.7
Reach B1 - Main Channel Middle (North): Begins at a point approximately 540 feet seaward of RED NUN #16 SLACK and ends at the approximate location of GREEN #19A SLACK.	File 5387/D/N1/N3 Pgs. 8 & 9 of 12. 12 – 14 DEC 2023	565-800	0.54	40	38.5	39.2	39.0	38.0
Reach D - Port Newark Branch Reach: Begins approximately at location 70 feet landward of GREEN #17 W/LIGHT FLOOD and extends to a point approximately 740 feet landward of GREEN #3 EBB.	File 5387/D/N1/N3 Pgs. 9 & 10 of 12. 12 – 14 DEC 2023	400-1,785	0.38	40	38.5	39.5	38.9	39.7
Reach E - Port Newark Inshore Reach (East): Begins approximately 740 feet landward of GREEN #3 EBB and extends to a point approximately 1,000 feet seaward of the end of the port (located approximately 5,465 feet landward of the start of the reach).	File 5387/D/N1/N3 Pgs. 10 – 12 of 12. 12 – 14 DEC 2023	400	0.90	40	38.5	39.4	39.6	36.9
Reach E1 - Port Newark Inshore Reach (West): Begins approximately 1,000 feet seaward of the end of the port and continues landward to the end of the port.	File 5387/D/N1/N3 Pgs. 12 of 12. 12 – 14 DEC 2023	400	0.16	35	24.3	28.6	28.0	27.8

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:** Shoaling exists in the Left Outside Quarter starting approximately 3,925 feet landward of the seaward end of the reach and extends to the approximate location of GREEN #1 FLOOD. This shoaling extends into the Left Inside Quarter approximately 480 feet landward of GREEN #7 W/LIGHT FLOOD until 720 feet landward of the same. Shoaling exists again in the Left Outside Quarter starting 430 feet seaward of end of the reach until the end of the reach. Shoaling exists in the Right Outside Quarter starting 2,165 feet seaward of the end of the reach until the end of the reach. The controlling depth of -40.9 feet MLLW is located in the Right Outside Quarter along the outside edge right at the end of the reach.
- **Reach B:** Shoaling exists in the Right Outside Quarter, encroaching into the Right Inside Quarter approximately 595 feet from the landward end of the reach until the end of the reach. Shoaling exists in the Left Outside Quarter starting 255 feet landward of the seaward end of the reach and extends 740 feet landward. Shoaling again picks up 325 feet seaward of RED #2 EBB in both the Right Outside and Inside Quarters until the landward end of the reach. The controlling depth of -38.7 feet MLLW is located in the Right Outside Quarter approximately 300 feet landward of RED #14 EBB.
- **Reach B1:** Shoaling exists in the Right Outside Quarter for much of this entire reach, encroaching into the Right Inside Quarter for the seaward first half of the length of this reach. Shoaling exists in the Left Inside Quarter at the approximate location of GREEN #17 W/LIGHT FLOOD. The controlling depth of -38.0 feet MLLW is located in the Right Outside Quarter at approximately the end of this reach.
- **Reach D:** Scattered shoaling exists in the Left Outside Quarter; shoaling extends into the Left and Right Inside Quarters starting 230 feet landward of the Green #1 W/LIGHT EBB and extends 850 feet. The controlling depth of -38.5 feet MLLW exists in the Left Outside Quarter, near the channel's toe, at a point approximately 515 feet landward of GREEN #17 W/LIGHT FLOOD.
- **Reach E:** Shoaling exists along the channel's toe in both the Left and Right Outside Quarters of this reach. Shoaling extends into the Left Inside Quarter approximately 2,025 feet from the landward end of the reach and extends 215 feet landward. Sporadic shoaling exists in the both the Left and Right Inside Quarters beginning 450 feet seaward of the landward end of the reach. The controlling depth of -36.9 feet MLLW exists along the outside edge of the Right Outside Quarter approximately 2,315 feet landward of the seaward end of the reach at the bend of the channel.
- **Reach E1:** Shoaling exists in the Right Outside Quarter and into the Right Inside Quarter at the beginning of this reach and expands across all four quarters 300 feet seaward of the landward end of this reach. The controlling depth of -24.3 feet MLLW exists in the Left Outside Quarter at approximately 55 feet from the end of this reach.