

REPORT OF CHANNEL CONDITIONS 400 FEET WIDE OR GREATER <i>(ER 1130-2-306)</i>							PAGE 1 OF 2	
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: Newark Bay, Hackensack and Passaic Rivers, New Jersey – Newark Bay Main Channel						MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)				
Reach A: Main Channel South Reach: From the junction between Kill Van Kull and Newark Bay Main Channel approximately 350 feet seaward of RED NUN #18 to a point approximately at RED LIGHT #10.	Map 930 Pg 1 to 4 of 9; 4,7,10,14,15,17,22,23,29,30 May 2012 & 4-5 June 2012	1,000-3,410	1.31	45	45.3	48.3	49.1	40.8
Reach B: Main Channel Middle Reach: From a point approximately at RED LIGHT #10 to approximately 230 feet seaward of RED NUN #16.	Map 930 Pg 4 and 5 of 9 4,7,10,14,15,17,22,23,29,30 May 2012 & 4-5 June 2012	800-1,700	0.88	45	46.1	48.2	49.0	48.3
Reach B1: Main Channel Middle Reach: From approximately 230 feet seaward of RED NUN #16 to approximately 325 feet seaward of RED LIGHTED #20.	Map 930 Pg 5 and 6 of 9; 4,7,10,14,15,17,22,23,29,30 May 2012 & 4-5 June 2012	520-800	0.53	40	34.3	36.9	33.4	26.7
Reach C: Main Channel North Reach: From approximately 325 feet seaward of RED LIGHTED #20 to approximately 220 feet seaward of LIGHTED NB (SKELETON TOWER).	Map 930 Pg 6 to 9 of 9; 4,7,10,14,15,17,22,23,29,30 May 2012 & 4-5 June 2012	520-1,030	1.36	35	17.5	21.5	19.3	7.4

REMARKS:

- All depths are in reference to Mean Low Water (MLW).
- Channel Length is in nautical miles.

NEWARK BAY:

- Reach A:** Shoaling exists in the Right Outside Quarter beginning approximately 235 feet seaward of FIXED NAVIGATION AID "4" and extending approximately 695 feet seaward, having a maximum approximate width of 260 feet.
- Reach B:** No shoaling exists in this reach.
- Reach B1:** The Right Outside Quarter is shoaled throughout the majority of its length and width.

Shoaling exists across the majority of the width of the Right Inside Quarter from the beginning of the reach to a point approximately 980 feet seaward of the end of the reach. Project depth then becomes available across the entire width of the reach at a point approximately 100 feet landward of RED NUN # 18. Shoaling exists in the Right Inside Quarter across the entire width of the quarter from the end of the reach extending approximately 185 feet seaward.

Shoaling exists in the Left Inside Quarter from approximately the beginning of the reach and extending approximately 1,350 feet landward. Additional shoaling exists across the width of the quarter from the end of the reach extending approximately 240 feet seaward.

Shoaling exists across the width of the Left Outside Quarter from approximately the beginning of the reach to approximately 60 feet seaward of GN CAN # 17. Shoaling exists beginning approximately 200 feet

REMARKS CONTINUED ON PAGE 2 OF 2:

landward of buoy GN CAN # 17 and continues for approximately 340 feet landward and reaches a maximum width of approximately 80 feet. Additional shoaling begins at the end of the reach and extends to a point approximately 350 feet seaward of the end of the reach spanning the width of the quarter.

- **Reach C:** Shoaling exists in the Right Outside Quarter from the beginning of this reach and extends approximately 5,400 feet landward. The shoal occupies the width of the quarter, tapers to half the width of the quarter, and eventually runs along the channel's toe. Shoaling again extends across the width of the quarter for the majority of the remainder of the reach beginning approximately 1,800 feet landward from RED DAY MARKER # 22.

Sporadic spot shoaling exists in the Right Inside Quarter approximately at RED W/ LIGHT # 20 and extends landward for approximately 1,250 feet. Shoaling exists in the Right Outside Quarter beginning approximately 1,480 feet seaward of RED NUN # 24 and continues landward for approximately 2,460 feet. The shoal broadens to the width of the quarter at approximately 150 feet seaward of RED NUN # 24. Shoaling exists at the end of the reach extending approximately 150 feet seaward and having a maximum width of approximately 120 feet.

Shoaling in the Left Inside Quarter begins approximately 50 feet seaward of RED NUN # 24 and extends approximately 300 feet landward having a maximum width of approximately 50 feet. Shoaling begins approximately 950 feet seaward from the end of the reach in the Left Inside Quarter and continues landward to the end of the reach having a maximum width that covers the entire width of the quarter.

Shoaling in the Left Outside Quarter begins approximately 250 feet landward of GREEN CAN # 19A and exists throughout much of the reach. Approximately 750 feet landward (northwest) of RED NUN # 24 the shoal covers the entire width of the quarter for the remainder of the reach.