

**REPORT OF CHANNEL CONDITIONS  
400 FEET WIDE OR GREATER  
(ER 1130-2-306)**

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DATE: November 21, 2011

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:**  
New York Harbor, Channel Along NJ Pierhead Line and Liberty Island Anchorage

**MINIMUM DEPTHS IN  
CHANNEL ENTERING FROM SEAWARD**

NAME OF REACH	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n. miles)	DEPTH (feet)				
Channel Along NJ Pierhead Line – Reach A (widening): Rectangular shape widening of Reach A on east side of junction with NY & NJ Channels: Commencing from RED W/LIGHT #32 to approximately 2,660 ft. landward.	Map 39 Sheet 2 of 4; 21, 22, 26, 28, & 29 Sep. 2011	300	0.44	20	18.5			
Channel Along NJ Pierhead Line – Reach A: From junction with NY & NJ Channels to approximately 760 ft. landward of GREEN CAN #7 FLOOD.	Map 39 Sheet 2 of 4; 21, 22, 26, 28, & 29 Sep. 2011	Irregular	0.61	20	13.7	20.9	21.3	21.4
Channel Along NJ Pierhead Line – Reach B: From approximately 760 ft. landward of GREEN CAN #7 FLOOD to approximately 160 ft. seaward of GREEN CAN #19 FLOOD.	Map 39 Sheets 1 & 2 of 4; 21, 22, 26, 28, & 29 Sep. 2011	500	0.80	20	5.5	17.9	18.4	14.3
Channel Along NJ Pierhead Line – Reach C: From approximately 160 ft. seaward of GREEN CAN #19 FLOOD to approximately 250 ft. landward of GREEN W/ LIGHT #1 EBB.	Map 39 Sheet 1 of 4; 21, 22, 26, 28, & 29 Sep. 2011	500	0.87	20	7.3	7.1	7.0	7.1
Channel Along NJ Pierhead Line – Reach C (triangular shape widening): From approximately the start of RED NUN #18 FLOOD to approximately 100 ft. landward of GREEN CAN #3 EBB.	Map 39 Sheet 1 of 4; 21, 22, 26, 28, & 29 Sep. 2011	Triangular Widening	0.60	20	7.3			
Liberty Island Anchorage – Reach A: From approximately 600 ft landward of RED NUN #4 EBB to a point adjacent to the northern most corner of Ellis Island.	Map 39 Sheet 3 of 4; 21, 22, 26, 28, & 29 Sep. 2011	720	1.59	20	12.8	17.6	20.3	21.7
Liberty Island Anchorage – Reach A (trapezoidal shape widening): From approximately RED NUN #4 EBB to approximately 400 ft. landward of GREEN CAN #3 FLOOD.	Map 39 Sheets 1 & 3 of 4; 21, 22, 26, 28, & 29 Sep. 2011	Trapezoidal Widening	0.57	20	7.9			

**REMARKS:**

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

**CHANNEL ALONG NEW JERSEY PIERHEAD LINE:**

- **Reach A (widening):** Shoaling exists at approximately 400 feet seaward of RED NUN #4 FLOOD and ends approximately 400 feet landward of RED NUN #4 FLOOD.
- **Reach A:** A shoal 1,800 feet in length is present along the left channel toe line from a distance approximately 250 feet landward of GREEN #1 W/ LIGHT FLOOD to approximately 200 ft. landward of GREEN #5 W/ LIGHT FLOOD.
- **Reach B:** A shoal 1,300 feet in length is present along the Left Outside & Inside Quarters of the channel starting from GREEN LIGHT #13 W/ LIGHT FLOOD continuing landward. Shoaling also exists across the width of the Right Outside & Inside Quarters of the channel from approximately 250 feet seaward of RED #16 W/ LIGHT FLOOD to approximately RED NUN #18 FLOOD.
- **Reach C & Reach C (triangular shape widening):** Shoaling exists across the width of the entire channel (four quarters and the widening) in two sections; one section starts at RED NUN #18 FLOOD and ends approximately at GREEN #5 W/ LIGHT FLOOD, the other section starts at approximately RED #4 W/ LIGHT FLOOD and ends approximately at GREEN CAN #3 EBB.

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**LIBERTY ISLAND ANCHORAGE:**

- **Reach A:** A shoal approximately 900 feet in length is present along the Left Outside Quarter from a distance approximately 900 feet seaward from GREEN CAN #3 FLOOD to GREEN CAN #3 FLOOD. Shoaling existing across Left Outside Quarter and Left Inside Quarter for the last 1,000 feet of reach.
- **Reach A (trapezoidal shape):** Shoaling existing across the majority of width of this entire reach