

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

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DATE 8 June 2012

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:
NY & NJ Channels, Vicinity of Outerbridge to Seguire Point Bend Reaches

**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 Q – Seguire Point Bend Reach (Partial): From a point approximately 750 feet seaward of GREEN LIGHTED BUOY #31 to a point approximately 50 feet seaward of GREEN LIGHTED BUOY #35	File 1344; Pg 5 of 5; 20,23-25 Apr 2012 and 2 & 3 May 2012	800-1000	.82	35	28.9	34.3	35.7	18.6
Reach P – Red Bank Reach: From approximately GREEN #35 W/LIGHT to approximately GREEN W/ LIGHT #47	File 1344; Pg 4 & 5 of 5; 20,23-25 Apr 2012 and 2 & 3 May 2012	600	1.23	35	33.2	40.9	40.8	32.9
Reach O – Ward Point Bend East Reach: From approximately GREEN W/ LIGHT #47 to approximately RED W/LIGHT #56	File 1344; Pg 3 & 4 of 5; 20,23-25 Apr 2012 and 1-3 May 2012	600-800	1.13	35	28.9	38.9	36.1	26.9
Reach N – Ward Point Bend West Reach: From approximately RED W/LIGHT #56 to a point approximately 3,600 feet landward of RED NUN #60	File 1344; Pg 2 & 3 of 5; 20,23-25 Apr 2012 and 1-3 May 2012	600-800	1.35	35	34.3	35.3	32.7	29.0
Partial Reach M – Outerbridge Reach: From a point approximately 3,600 feet landward of RED NUN #60 to approximately 3,200 feet landward of RED LIGHT #2	File 1344; Pg 1 & 2 of 5; 20,23-25 Apr 2012 and 1-3 May 2012	600-840	1.16	35	31.9	35.4	36.9	34.4

REMARKS:

- All depths in Mean Low Water (MLW)
- Channel Length is in nautical miles

SHOALING BY REACHES:

- **Partial Reach Q:** Shoaling commences in the Right Outside Quarter approximately 370 feet landward from RED BUOY W/LIGHT #34 and extends seaward for approximately 3,850 feet from the same buoy, reaching the width of the quarter and gradually tapering off along the channel's toe. Shoaling exists sporadically throughout the Left Outside Quarter. Minor shoaling exists in the Left Inside Quarter beginning approximately 600 feet landward of GREEN BUOY W/LIGHT # 33 extending approximately 700 feet seaward.

- **Reach P:** Shoaling exists along the channel's toe in the Left Outside Quarter beginning approximately at GREEN BUOY W/LIGHT #47 extending approximately 500 feet seaward. Shoaling then begins in the Left Outside Quarter approximately 1,080 feet seaward of GREEN BUOY W/LIGHT #39 extending seaward approximately to GREEN BUOY W/LIGHT #35. Shoaling begins approximately 515 feet landward of BEACON #42 in the Right Outside Quarter and extends seaward to approximately 160 feet landward of BEACON #42. Shoaling exists in the Right Outside Quarter from approximately 300 feet landward of RED NUN # 40 and extends approximately 330 feet seaward of the same buoy. Shoaling exists along the channel's edge in the Right Outside Quarter at RED NUN #36.
- **Reach O:** Shoaling exists along the channel's toe in the Right Outside Quarter commencing at RED BUOY W/LIGHT #56 and ending approximately 450 feet seaward of the same buoy. Shoaling continues in the Right Outside Quarter along the channel's toe approximately 1,400 feet landward of RED NUN #54 and ends approximately 1,200 feet seaward of RED BUOY W/LIGHT #50. Spot shoaling exists in the Left Outside Quarter at GREEN BUOY W/LIGHT #49. Shoaling continues in the Left Outside Quarter along the channel's toe approximately 200 feet seaward of GREEN BUOY W/LIGHT # 49 and ends approximately 100 feet landward of GREEN/RED BUOY # E. Shoaling then begins approximately 1,050 feet seaward of GREEN/RED BUOY # E and ends approximately 80 feet landward of GREEN BUOY W/LIGHT #47.
- **Reach N:** Shoaling exists in the Right Outside Quarter commencing approximately 1,550 feet landward of RED NUN #60 and continues to the end of the reach ending approximately at RED BUOY W/LIGHT #56. The shoal widens to the width of the quarter reach at approximately 360 feet seaward of RED NUN #60. Shoaling in the Right Inside Quarter begins approximately 110 feet seaward of RED NUN #60 and extends to approximately 460 feet landward of RED BUOY W/LIGHT # 56. Shoaling exists in the Left Outside Quarter beginning approximately 1,460 feet landward of RED NUN #60 and extends seaward for approximately 300 feet. Another shoal exists in this quarter commencing 1,150 feet seaward of RED NUN #60 and extending 200 feet.
- **Partial Reach M:** Project depth is available in both the Right Inside Quarter and the Left Inside Quarter. Minor shoaling begins in the Right Outside Quarter along the channel's toe approximately 2,040 feet seaward of RED LIGHT #2 and extending approximately 160 feet seaward. Shoaling exists in the Left Outside Quarter beginning approximately 2,470 feet landward of RED LIGHT #2 and continues seaward for approximately 1,040 feet. A spot shoal exists in the Left Outside Quarter approximately 140 feet seaward of RED LIGHT #2.