

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

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DATE	17 September 2010		

TO: The Record	FROM: U.S. Army Corps of Engineers 26 Federal Plaza, ATTN: CENAN-OP-ST New York, NY 10278-0090
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RIVER/HARBOR NAME AND STATE: Great South Bay, New York	MINIMUM DEPTHS IN CHANNEL ENTERING FROM SEAWARD
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NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
Reach A: Fire Island Inlet, Robert Moses to E. Fire Island: From approximately 1,150 feet seaward of GREEN CAN #19 to approximately 900 feet landward of RED BUOY #8	File 89, Sheets 3 - 9 of 26; 16-19 June 2010	200	3.83	10	1.6	1.5	0.9
Reach B: Thence to Brown Point: From approximately 900 feet landward of RED BUOY #8 to approximately 2,570 feet landward of RED NUN #32	File 89, Sheets 9 - 21 of 26; 16-19 June 2010	200	7.37	10	6.8	9.5	9.3
Reach C: Thence to opposite entrance to Patchogue River: From approximately 2,570 feet landward of RED NUN #32 to approximately 4,230 feet landward of GREEN BUOY #35	File 89, Sheets 21 - 26 of 26; 16-19 June 2010	200	2.61	10	8.4	8.5	8.5

REMARKS:

- All depths are in Mean Low Water.
- The channel length is in nautical miles.

GREAT SOUTH BAY

- **Reach A:** Shoaling is present across the entire channel width beginning approximately 1,200 feet seaward of GREEN/RED "CB" and continues seaward for approximately 1,450 feet with a minimum depth of 1.5 ft MLW along the center of the channel.
Shoaling exists across the entire channel width approximately 950 feet seaward of GREEN CAN #7 and continues on landward to GREEN CAN #7, thence, continues along the left half of the channel for approximately 400 feet.
Shoaling exists along the entire channel width beginning approximately 500 feet seaward of GREEN/RED "EW" for 300 feet.
Shoaling exists along the right channel line at approximately 1,720 feet landward of GREEN/RED "EW" with a landward length and width of approximately 130 feet and 25 feet, respectively, and at approximately 2,245 feet landward of GREEN/RED "EW" which extends approximately 225 feet landward with a width of approximately 30 feet.
Spot shoal of about 30 feet diameter exists at the center line of the channel approximately 2,130 feet seaward of GREEN/RED "EW".
Shoaling exists in the Right Outside Quarter beginning at approximately 120 feet seaward of RED BUOY #8 and ending approximately 330 feet landward of the same, with a maximum width of approximately 100 feet that extends into the Middle Half of the channel.
- **Reach B:** Minor spot shoals exist along the right channel line: the first begins at the RED NUN #14 with a 100 feet seaward length and 20 maximum width; the second begins 220 feet landward of GREEN CAN #15 with less than 100 feet landward length and 10 feet maximum width.
Small spot shoal exists at the right edge of the Middle Half 350 feet landward of GREEN CAN #15.
Shoaling exists in the Left Outside Quarter approximately 130 feet seaward of GREEN BUOY #19 and extending landward approximately 280 feet with a width of approximately 65 feet.
Shoaling begins in the Left Outside Quarter approximately 1,710 feet landward of GREEN BUOY #21 and extends approximately 700 feet landward before extending to cover the entire channel width for approximately 960 feet landward. This shoal then tapers back towards the outside channel lines and exists in the Right and Left Outside Quarters for approximately 950 feet landward with portions also covering the Middle Half of the channel.
Shoaling is present in a majority of the Right and Left Outside Quarters beginning at approximately 2,480 feet seaward of GREEN CAN #25 and extending for much of the channel reach.
Shoaling exists throughout the entire channel width from approximately 1,200 feet seaward of RED NUN #32 to approximately 2,000 feet landward of the same.
- **Reach C:** Sporadic shoaling exists throughout the channel reach and then extends across the entire channel width beginning approximately 630 feet seaward of RED BUOY #34 and extending to the end of the reach.