

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE**

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DATE 14 February 2017

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:
Washington Canal and South River, New Jersey

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

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: From GREEN LIGHT #35 to approximately 460 seaward of the confluence with South River.	File 2; Pages 2-3 of 8; 24-25 Aug 2016	100	0.68	12	10.4	9.1	8.6
Reach B: From approximately 460 seaward of the confluence with South River to Veterans Memorial Bridge HWY 535.	File 2; Pages 3-4 of 8; 24-25 Aug 2016	150	0.70	12	7.7	10.1	2.2
Reach C: From Veterans Memorial Bridge HWY 535 to the mouth of Pond Creek.	File 2; Pages 4-5 of 8; 24-25 Aug 2016	150	0.99	12	4.1	2.9	1.0
Reach D: From mouth of Pond Creek to the mouth of Tennant Creek.	File 2; Page 5-7 of 8; 24-25 Aug 2016	150	0.99	12	1.2	4.0	0.4
Reach E: From the mouth of Tennant Creek to 750 feet seaward of Main Street Bridge HWY 615.	File 2; Pages 7-8 of 8; 24-25 Aug 2016	150	1.12	12	+1.8	0.1	+1.4

REMARKS:

- All depths are relative to the Mean Lower Low Water (MLLW) datum.
- Channel reach length is in nautical miles.

Reach A:

Shoaling exists along the Left Outside Quarter approximately 1,960 feet seaward of the confluence with the South River and continues landward intermittently for approximately 1,345 feet. Shoaling exists along the Middle Half approximately 845 feet landward of GREEN LIGHT #35 and continues landward for approximately 100 feet. Shoaling starts again from approximately 1,795 feet seaward of the confluence with the South River and continues landward intermittently for approximately 1,280 feet. Shoaling exists along the Right Outside Quarter approximately 10 feet seaward of GREEN LIGHT #35 and continues landward for approximately 135 feet. Shoaling starts again from approximately 1,875 feet seaward of the confluence with the South River and continues landward intermittently for approximately 1,385 feet. The controlling depth of -8.6 feet MLLW exists along the Right Outside Quarter approximately 55 feet landward of GREEN LIGHT #35.

Reach B:

Shoaling exists along the Left Outside Quarter approximately 375 feet seaward of the confluence with the South River and continues landward intermittently to the VET MEMORIAL BRIDGE HWY 535. Shoaling exists along the Middle Half approximately 425 feet seaward of the confluence with the South River and continues landward for approximately 145 feet. Shoaling starts again from approximately 1,065 feet landward of the confluence with the South River and continues

landward for approximately 145 feet. Shoaling starts again from approximately 1,155 feet seaward of the VET MEMORIAL BRIDGE HWY 535 and continues landward for approximately 350 feet. Shoaling exists along the Right Outside Quarter approximately 80 feet landward of the confluence with the South River and continues landward intermittently to the VET MEMORIAL BRIDGE HWY 535. The shoaling fills the entire width of the Quarter from approximately 1,075 feet seaward of the VET MEMORIAL BRIDGE HWY 535 and continues landward to the bridge. The controlling depth of -2.2 feet MLLW exists along the Right Outside Quarter approximately 180 feet seaward of the VET MEMORIAL BRIDGE HWY 535.

Reach C:

Shoaling exists within the Left Outside Quarter, Middle Half, and Right Outside Quarter of the channel starting approximately 225 feet landward from the VET MEMORIAL BRIDGE HWY 535 and continues landward to the mouth of Pond Creek. Three areas where the project depth exists are located in the middle half at every river bend and vary approximately 600 feet to 1150 feet long by 75 feet wide. Shoaling exists along the Left Outside Quarter approximately 175 feet landward of the VET MEMORIAL BRIDGE HWY 535 and continues landward for approximately 50 feet to where the shoaling extends into the Middle Half of the channel. Shoaling exists along the Right Outside Quarter at the VET MEMORIAL BRIDGE HWY 535 and continues landward for approximately 545 feet to where the shoaling extends into the Middle Half of the channel. The controlling depth of -1.0 feet MLLW exists along the Right Outside Quarter approximately 55 feet landward of GREEN LIGHT #35.

Reach D:

Shoaling exists across the width of the channel starting at the mouth of Pond Creek and continuing landward to the mouth of Tennant Creek. Five areas where the project depth exists are located in the middle half at every river bend and vary approximately 425 feet to 1,175 feet long by 75 feet wide. The controlling depth of -0.4 feet MLLW exists along the Right Outside Quarter approximately 1,520 feet seaward of mouth of Tennant Creek.

Reach E:

Shoaling exists across the width of the channel starting at the mouth of Tennant Creek and continues through the end of the reach, approximately 730 feet landward of the MAIN STREET BRIDGE HWY 615. Two areas where the project depth exists are located in the middle half approximately 1,165 feet and 2,645 feet landward of the mouth of Tennant Creek, respectively and vary approximately 520 feet to 700 feet long by 50 feet wide. The controlling depth of +1.8 feet MLLW exists along the Left Outside Quarter approximately 2,215 feet seaward of MAIN STREET BRIDGE HWY 615.