

**REPORT OF CHANNEL CONDITIONS
(FOR CHANNELS 400 FEET WIDE OR GREATER)**

DATE 15 May 2024

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 and New Jersey Channels;
Arthur Kill, NY & NJ

**MINIMUM DEPTHS IN EACH ¼ WIDTH OF
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MID-CHANNEL		RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (n miles)	DEPTH (feet)		LEFT INSIDE QUARTER (feet)	RIGHT INSIDE QUARTER (feet)	
Reach G: Begins approximately 240 feet seaward of the STATEN ISLAND R.R./CONRAIL BRIDGE and continues for approximately 4,500 feet landward along the centerline of the reach.	File No. 5434/D/N1/N3, Pg. 19-20 of 20; 17-18, 22-24 Apr and 1 & 6 May 2024	500 – 600	0.74	40	28.3	41.0	42.9	41.2
SEAWARD is oriented towards New York Harbor in the preceding reaches and to Raritan Bay in the following reaches.								
Reach H: Begins at the approximate location of RED #36 W/LIGHT EBB and continues to approximately 1,585 feet landward of GREEN #43 W/LIGHT FLOOD.	File No. 5434/D/N1/N3, Pg. 15 -19 of 20; 17-18, 22-24 Apr and 1 & 6 May 2024	500 – 770	1.67	35	26.7	34.5	36.3	25.8
Reach I: Begins at the approximate location of RED #30 W/LIGHT EBB and continues to the approximate location of RED #36 W/LIGHT EBB.	File No. 5434/D/N1/N3, Pg. 13-15 of 20; 17-18, 22-24 Apr and 1 & 6 May 2024	500 – 600	0.85	35	31.7	36.0	37.1	30.9
Reach J: Begins at the approximate location of GREEN #21 W/LIGHT EBB and continues to the approximate location of RED #30 W/LIGHT EBB.	File No. 5434/D/N1/N3, Pg. 10 -13 of 20; 17-18, 22-24 Apr and 1 & 6 May 2024	500	1.66	35	32.2	34.6	35.9	32.9
Reach K: Begins at the approximate location of GREEN #11 W/LIGHT EBB and continues to the approximate location of GREEN #21 W/LIGHT EBB.	File No. 5434/D/N1/N3, Pg. 6 -10 of 20; 17-18, 22-24 Apr and 1 & 6 May 2024	500 – 850	1.82	35	24.1	34.2	34.9	24.1
Reach L: Begins approximately 80 feet landward of GREEN #5 W/LIGHT EBB and continues to the approximate location of GREEN #11 W/LIGHT EBB.	File No. 5434/D/N1/N3, Pg. 2 - 6 of 20; 17-18, 22-24 Apr and 1 & 6 May 2024	600 – 800	0.80	35	31.9	34.5	35.2	32.0

REMARKS:

- All reported depths are relative to Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.
- Landward is oriented towards the intersection of Reaches G and H, where authorized project depth changes from 40 to 35 feet.

ARTHUR KILL:

- **REACH G:** Shoaling exists along the channel's toe in the Left Outside Quarter. The controlling depth of -28.3 feet MLLW exists along the toe of the channel in the Left Outside Quarter, approximately 670 feet landward of the beginning of this reach.
- **REACH H:** Sporadic shoaling exists along the channel's toe in the Left Outside and Right Outside Quarter. The controlling depth of -25.8 feet MLLW exists along the toe of the channel in the Right Outside Quarter, approximately 565 feet landward of RED #38 W/LIGHT EBB.
- **REACH I:** Sporadic shoaling exists along the channel's toe in the Left Outside and Right Outside Quarter.-The controlling depth of -30.9 feet MLLW exists along the toe of the channel in the Right Outside Quarter, at the approximate location of RED #36 W/LIGHT EBB.
- **REACH J:** Edge shoaling exists in the Left Outside Quarter and the Right Outside Quarter. The controlling depth of -32.2 feet MLLW exists along the toe of the channel in the Left Outside Quarter approximately 675 feet landward of RED #24 W/LIGHT FLOOD.
- **REACH K:** Small area of shoaling exists in the Left Inside Quarter near the landward end of the reach. Shoaling exists in the Left Outside Quarter and the Right Outside Quarter of this reach. The controlling depth of -24.1 feet MLLW exists in two areas first along the toe of the channel in the Right Outside Quarter, approximately 215 feet seaward of RED #18 W/LIGHT EBB and along the toe of channel in the Left Outside Quarter, approximately 495 feet seaward of GREEN #21 W/LIGHT EBB.
- **REACH L:** Shoaling exists along both the Left Outside Quarter and the Right Outside Quarter. The controlling depth of -31.9 feet MLLW exists along the toe of the channel in the Left Outside Quarter, at the approximately 1,460 feet seaward of GREEN #11 W/LIGHT EBB.