

Chart 11490 (Upper Panel)

NM 21/11

ST. JOHNS RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO NOV 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ST. JOHNS BAR CUT RANGE, EAST SECTION	38.0	40.2	43.9	39.2	11-10	800	3.2	42
ST. JOHNS BAR CUT RANGE, WEST SECTION	34.8	39.7	37.1	35.6	11-10	750-800	1.6	40
MAYPORT ENTRANCE CHANNEL	41.0	41.3	40.9	41.0	11-10	500	0.8	42
PILOT TOWN CUT RANGE	23.5	42.1	43.2	41.5	11-10	850-900	0.9	40

NOTES-(1) THE RANGE LIGHTS DO NOT IN EVERY INSTANCE MARK THE CENTERLINE OF THE CHANNEL.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11491 (Side A)

NM 21/11

ST. JOHNS RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO DEC 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ST. JOHNS BAR CUT RANGE, EAST SECTION	38.0	40.2	43.9	39.2	11-10	800	3.2	42
ST. JOHNS BAR CUT RANGE, WEST SECTION	34.8	39.7	37.1	35.6	11-10	750-800	1.6	40
MAYPORT ENTRANCE CHANNEL	41.0	41.3	40.9	41.0	11-10	500	0.8	42
PILOT TOWN CUT RANGE	23.5	42.1	43.2	41.5	11-10	850-900	0.9	40
MAYPORT CUT RANGE	42.7	43.3	42.7	41.7	11-10	1025	0.5	40
SHERMAN CUT RANGE	42.6	43.1	42.9	35.9	11-10	625	0.4	40
MILE POINT LOWER RANGE AND TURN	41.2	40.8	39.8	29.1	11-10	625	0.8	40
TRAINING WALL REACH	40.7	41.3	38.3	39.2	11-10	475-625	1.2	40
SHORT CUT TURN	38.7	42.1	42.6	41.8	11-10	525-575	0.5	40
WHITE SHELLS CUT RANGE	39.7	40.3	42.2	42.2	11-10	525-900	0.7	40
ST. JOHNS BLUFF REACH	39.3	39.4	38.7	37.6	11-10	600-750	0.7	40
DAMES PT.-FULTON CUTOFF	36.6	39.8	40.4	40.3	11-10	475-875	2.5	40
DAMES PT. TURN	40.3	42.2	41.8	40.9	12-10	875-1175	0.4	40
QUARANTINE I. UPPER RANGE	39.7	41.8	42.7	35.7	12-10	525-950	0.8	40
BRILLS CUT RANGE	36.1	41.9	41.1	34.2	12-10	425-600	1.0	40
BROWARD POINT TURN	15.6	36.9	42.0	40.9	11-10	475-825	0.8	40
BLOUNT ISLAND CHANNEL	30.4	35.1	33.9	31.2	12-10	300-1000	1.8	38
BLOUNT ISLAND EAST CHANNEL	20.5	21.7	19.5	15.5	12-10	300	0.9	30

NOTE: THE RANGE LIGHTS DO NOT IN EVERY INSTANCE MARK THE CENTERLINE OF THE CHANNEL.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11491 (Side B)

NM 21/11

ST. JOHNS RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2006 AND SURVEYS TO DEC 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
QUARANTINE I. UPPER RANGE	39.7	41.8	42.7	35.7	12-10	525-950	0.8	40
BRILLS CUT RANGE	36.1	41.9	41.1	34.2	12-10	425-600	1.0	40
BROWARD POINT TURN	15.6	36.9	42.0	40.9	11-10	475-825	0.8	40
DRUMMOND CREEK RANGE	36.5	41.7	41.9	40.1	11-10	375-850	1.3	38-40
TROUT RIVER CUT RANGE	40.1	41.7 A	40.7	38.1	11-10	400-850	1.0	38
CHASEVILLE TURN	40.9	42.9	42.4	42.0	11-10	500-800	0.6	38
LONG BRANCH RANGE	38.0	40.1	39.6	34.6	11-10	650-1325	0.6	38
TERMINAL CHANNEL	23.8	27.6	22.7	18.7	12-10	550-1325	3.1	30-38

A: EXCEPT FOR A 36 FT OBSTRUCTION LOCATED BY AN NOS SURVEY AT 30°23'37.1" N, 081°37'25.6" W  
NOTE: THE RANGE LIGHTS DO NOT IN EVERY INSTANCE MARK THE CENTERLINE OF THE CHANNEL.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11503

NM 21/11

FERNANDINA HARBOR			
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003 AND SURVEYS TO NOV 2009			
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
QUARANTINE REACH	34.5	400-1100	11-09
OLD TOWN REACH	31.7	400-560	11-09
SEABOARD REACH	34.1	400	11-09
CITY FRONT REACH	14.6	300	11-09
RAYONIER REACH	6.6	300	11-09
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE			

Chart 11505

NM 21/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	43.5	43.5	44.0	42.5	2-11	600	3.79	44
BLOODY POINT RANGE	43.0	44.0	44.0	42.5	1, 2-11	600	3.41	44
JONES ISLAND RANGE	42.0	42.0	43.5	44.0	1, 2-11	600	1.33	44
TYBEE KNOLL CUT RANGE	42.5	44.0	44.0	42.5	1, 2-11	500	2.84	42
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.								
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.								
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

SECTION I

Chart 11512

NM 21/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	43.5	43.5	44.0	42.5	2-11	600	3.79	44
BLOODY POINT RANGE	43.0	44.0	44.0	42.5	1, 2-11	600	3.41	44
JONES ISLAND RANGE	42.0	42.0	43.5	44.0	1, 2-11	600	1.33	44
TYBEE KNOLL CUT RANGE	43.0	44.0	44.0	42.5	1, 2-11	500	2.84	42
NEW CHANNEL RANGE (A)	41.0	43.0	43.0	42.0	2-11	500	1.89	42
L. I. CROSSING RANGE	41.0	42.0	42.5	41.5	2-11	500	3.03	42
LOWER FLATS RANGE	40.0	45.0	44.0	42.5	2-11	500	1.52	42
UPPER FLATS RANGE	43.0	44.5	45.0	42.5	2-11	500	1.33	42
THE BIGHT CHANNEL	44.5	46.0	46.5	46.5	2-11	500	1.7	42
FT. JACKSON RANGE	44.0	46.5	46.5	43.5	2-11	500	0.76	42
OGLETHORPE RANGE	39.5	45.0	45.0	43.5	2-11	500	1.33	42
WRECKS CHANNEL (B)	38.0	43.0	46.0	43.5	2-11	500	1.7	42
CITY FRONT CHANNEL	42.0	45.0	44.5G	36.5	2-11	500	1.7	42
MARSH ISLAND CHANNEL (C)	41.0H	41.5	44.5	41.0	2-11	500	1.9	42
KINGS ISLAND CHANNEL (D)	39.0	40.0	41.0	42.0I	2-11	500	2.46	42
WHITEHALL CHANNEL (E)	28.5	29.0	30.0	31.5	2-11	400	0.66	42-36
PORT WENTWORTH CHANNEL (F)	30.0J	29.5	31.0	32.0	12-94; 2-11	200	1.33	30

A. OYSTER BED I. TURNING BASIN-CONTROLLING DEPTH 43.0 FT, 40.0 FT 100 FT FROM BACKSIDE.  
 B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 37.0 FT, 24.5 FT 100 FT FROM BACKSIDE.  
 C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 34.0 FT, 26.0 FT 100 FT FROM BACKSIDE.  
 D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 29.5 FT, 27.5 FT 100 FT FROM BACKSIDE.  
 E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT 100 FT FROM BACKSIDE.  
 F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 29.0 FT, 18.0 FT 100 FT FROM BACKSIDE.  
 G. EXCEPT FOR A 41 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'00.06"N 81°05'27.07"W  
 H. EXCEPT FOR A 39 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'18.29"N 81°05'58.99"W  
 I. EXCEPT FOR A 38 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°07'27.45"N 81°08'02.29"W  
 J. EXCEPT FOR A 31 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°09'15.04"N 81°09'11.46"W

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.  
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.  
 NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11514 (Side A)

NM 21/11

SAVANNAH RIVER CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2011								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
OGLETHORPE RANGE	39.5	45.0	45.0	43.5	2-11	500	1.33	42
WRECKS CHANNEL (A)	38.0	43.0	46.0	43.5	2-11	500	1.7	42
CITY FRONT CHANNEL	42.0	45.0	44.5F	36.5	2-11	500	1.7	42
MARSH ISLAND CHANNEL (B)	41.0G	41.5	44.5	41.0	2-11	500	1.9	42
KINGS ISLAND CHANNEL (C)	39.0	40.0	41.0	42.0H	2-11	500	2.46	42
WHITEHALL CHANNEL (D)	28.5	29.0	30.0	31.5	2-11	400	0.66	42-36
PORT WENTWORTH CHANNEL (E)	30.0I	29.5	31.0	32.0	12-94; 2-11	200	1.33	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 37.0 FT, 24.5 FT 100 FT FROM BACKSIDE.  
 B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 34.0 FT, 26.0 FT 100 FT FROM BACKSIDE.  
 C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 29.5 FT, 27.5 FT 100 FT FROM BACKSIDE.  
 D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 32.0 FT 100 FT FROM BACKSIDE.  
 E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 29.0 FT, 18.0 FT 100 FT FROM BACKSIDE.  
 F. EXCEPT FOR A 41 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'00.06"N 81°05'27.07"W  
 G. EXCEPT FOR A 39 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°05'18.29"N 81°05'58.99"W  
 H. EXCEPT FOR A 38 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°07'27.45"N 81°08'02.29"W  
 I. EXCEPT FOR A 31 FOOT OBSTRUCTION LOCATED BY A NOS SURVEY AT 32°09'15.04"N 81°09'11.46"W

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.  
 NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.  
 NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 21/11

Chart 12324 (Side A)

NM 21/11

SANDY HOOK BAY, SHREWSBURY AND NAVESINK RIVERS CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2010			
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			
NAME OF CHANNEL	MIDDLE HALF (FEET)	WIDTH (FEET)	DATE OF SURVEY
SANDY HOOK BAY TERMINAL CHANNEL	A45.0	400-1050	12-02
SHREWSBURY RIVER HIGHLANDS REACH	10.3	150	6-10
RUMSON REACH	7.4	150	6-10
LONG BRANCH REACH	6.6	150	6-10
NAVESINK RIVER BARLEY POINT REACH	2.0	150	6,10-10
FAIR HAVEN REACH	5.5	150	6-10
RED BANK REACH	5.8	150	6-10

A. FEDERAL PROJECT DEPTH IS 45 FEET IN THE CHANNEL AND TURNING BASIN EXCEPT AROUND PIERS 2 AND 3 WHERE THE PROJECT DEPTH IS 35 FEET.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 12327

NM 21/11

ARTHUR KILL, KILL VAN KULL, NEWARK BAY, PORT NEWARK AND PORT ELIZABETH CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2010 AND SURVEYS TO JUL 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARTHUR KILL (A) OUTERBRIDGE REACH	33.1	35.2	35.6	34.4	5-09;4-10	600	0.85	35
PORT SOCONY REACH	31.8	34.5	34.5	33.0	4-09	600-800	0.87	35
PORT READING REACH	28.3	34.4	34.6	28.2	4-09	500-850	1.80	35
FRESH KILLS REACH	30.3	34.6	35.9	34.0	4-09	500	1.65	35
TREMLEY POINT REACH	30.5	35.6	36.3	29.2	4-09	500	0.85	35
PRALLS ISLAND REACH	31.9	33.6	35.2	27.0	4-09	500	1.13	35
GULFPORT REACH	32.6	36.2	37.0	30.3	4,12-09;1-10	500-600	1.03	35
ELIZABETHPORT REACH	40.9	43.6	43.4	40.7	12-09;1-10	600-800	0.91	35
NORTH OF SHOOTERS ISLAND REACH	40.8	42.2	40.9	38.4	12-09;1-10	600	0.97	35
SOUTH OF SHOOTERS ISLAND REACH	B6.5	B13.8	B14.5	B10.1	11-04	400	0.94	30
KILL VAN KULL (A) BERGEN POINT WEST REACH	50.2	52.5	52.1	49.6	12-09;1-10	800-1150	1.12	45
BERGEN POINT EAST REACH	48.9	53.0	52.9	50.5	12-09;1-10	800	1.09	45
CONSTABLE HOOK REACH	44.6	46.2	46.9	44.4	12-09;1-10	800-2000	2.52	45
NEWARK BAY SOUTH REACH	44.0	47.3	45.3	41.4	7-10	1000-1775	1.32	45
REACH B : MIDDLE REACH	43.0	46.6	40.2	33.1	7-10	800-1700	0.88	45
REACH B1 : MIDDLE REACH	34.4	38.2	34.1	27.3	7-10	560-800	0.53	40
NORTH REACH	21.4	21.6	19.6	7.4	7-10	500-1030	1.36	35
TURNING BASIN	21.3	21.5	19.6	8.6	7-10	900	0.26	35
PORT NEWARK BRANCH REACH	27.0	38.8	36.1	30.5	7-10	400-1775	0.37	40
INSHORE REACH	33.2	32.0	30.7	30.7	7-10	400	1.06	40
PORT ELIZABETH CHANNEL REACH	40.4	40.9	40.8	38.4	7-10	500-800	1.26	45

A. CONTROLLING DEPTHS IN ARTHUR KILL AND KILL VAN KULL ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM LOWER BAY.  
B. NUMEROUS WRECKS AND OBSTRUCTIONS WITH MINIMUM DEPTH TO 4 FEET WITHIN CHANNEL LIMITS.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 21/11

Chart 12327

NM 21/11

LOWER BAY, CHAPEL HILL, RARITAN BAY AND RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2010 AND SURVEYS TO SEP 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
<b>LOWER BAY:</b>								
AMBROSE CHANNEL	39.9	45.9	45.8	41.7	4-03	2000	9.2	45
SANDY HOOK CHANNEL (EAST)	35.8	40.9	37.5	35.2	8-08; 9-09	800-2150	4.5	35
SANDY HOOK CHANNEL (BAYSIDE)	30.7	39.1	37.8	31.6	8-08; 9-09	800	2.3	35
TERMINAL CHANNEL (NAVY)	45.0	45.0	45.0	45.0	9-09	400-1050	0.8	A45
TURNING BASIN (NAVY)	45.0	45.0	45.0	45.0	9-09	400-2300	0.6	A45
<b>CHAPEL HILL:</b>								
SOUTH CHANNEL (B)	*28.0	*28.5	*29.6	*24.3	11,12-09	1000	2.6	30
NORTH CHANNEL (B)	*28.8	*29.3	*27.3	*27.6	11,12-09	1000	2.2	30
<b>RARITAN BAY:</b>								
EAST REACH	32.6	38.3	38.0	32.9	4,5-10	600	3.9	35
WEST REACH	32.0	40.5	40.0	31.7	4,5-10	600	2.4	35
SEGUINE POINT BEND	33.6	37.7	39.6	31.4	4,5-10	600-1000	1.2	35
RED BANK REACH	33.0	40.5	40.2	33.1	4-10	600	1.02	35
WARD POINT BEND (EAST)	29.7	38.6	38.3	27.9	4-10	600-800	0.82	35
WARD POINT BEND (WEST)	34.4	35.3	32.8	29.7	4-10	600	1.35	35
WARD POINT SECONDARY CHANNEL CUTOFF (C)	18.8	18.8	18.8	18.2	4-10	400	0.83	30
11.4	16.9	18.6	17.1	6-10	600-1740	1.0	20	
<b>RARITAN RIVER:</b>								
GREAT BEDS REACH (D)	17.6	20.4	20.4	16.5	6,7,8,9-10	300	0.76	25
SOUTH AMBOY REACH (D)	19.9	19.1	18.1	16.6	6,7,8,9-10	300	1.2	25

A. PROJECT DEPTHS IN THE TERMINAL CHANNEL AND TURNING BASIN ARE 45 FEET, EXCEPT AROUND PIERS 2 AND 3 WHERE THE PROJECT DEPTH IS 35 FEET. DEPTHS SHOALER THAN PROJECT DEPTHS ARE CHARTED IN CHANNELS.  
 B. AN \* DENOTES A SHOAL OBSTRUCTION. SPORADIC SHOAL OBSTRUCTIONS EXIST WITHIN THE CHANNEL BUT ARE NOT CHARTED. CONSULT CORPS OF ENGINEERS FOR LOCATION OF OBSTRUCTIONS.  
 C. CONTROLLING DEPTHS ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM RARITAN RIVER.  
 D. THE CORPS OF ENGINEERS REPORTS MIDDLE HALF OF CHANNEL.  
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327

NM 21/11

PORT ELIZABETH SOUTH, PORT NEWARK, PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2010 AND SURVEYS TO JUL 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS			
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)	
PORT ELIZABETH SOUTH REACH	41.7	42.6	43.2	7-10	140-290	0.43	45	
<b>PORT NEWARK :</b>								
PIERHEAD REACH	31.0	31.3	28.7	7-10	300-750	0.65	40	
<b>PASSAIC RIVER :</b>								
KEARNY POINT REACH	13.1	13.9	10.3	6,7-10	300	1.01	30	
POINT NO POINT REACH	+0.1	4.5	8.5	6,7-10	300	1.13	30	
HARRISON REACH	+0.6	5.1	1.0	6,7-10	300	1.87	A20	
NEWARK REACH	0.7	5.6	+0.7	6,7-10	300	1.28	A20	
KEARNY REACH	+0.1	6.9	+0.5	6,7-10	300	0.85	20	
ARLINGTON REACH	3.1	8.6	+0.2	6,7-10	200-250	0.89	16	
<b>HACKENSACK RIVER :</b>								
DROYERS REACH	25.3	24.1	17.5	4-10	300-500	1.56	B32	
MARION REACH	23.4	24.1	19.2	4-10	300-370	1.82	B32	
TURNING BASIN	14.5	14.5	14.5	4-10	irregular	0.23	25	

A. REACHES WERE NEVER COMPLETED TO A 20 FOOT DEPTH. PREVIOUS DREDGING WAS TO 16 FEET ONLY.  
 B. REACHES WERE NEVER COMPLETED TO A 32 FOOT DEPTH. PREVIOUS DREDGING WAS TO 30 FEET ONLY.  
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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Chart 12331

NM 21/11

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2010 AND SURVEYS TO SEP 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
RARITAN BAY								
EAST REACH	32.6	38.3	38.0	32.9	4,5-10	600-800	3.9	35
WEST REACH	32.0	40.5	40.0	31.7	4,5-10	600	2.4	35
SEGUINE POINT BEND	30.2	34.5	35.8	21.1	4,5-10	600-1000	1.2	35
RED BANK REACH	33.0	40.5	40.2	33.1	4-10	600	1.02	35
WARD POINT BEND (EAST)	29.7	38.6	36.3	27.9	4-10	600-800	0.82	35
WARD POINT BEND (WEST)	34.4	35.3	32.8	29.7	4-10	600	1.35	35
WARD POINT SECONDARY CHANNEL CUTOFF (A)	18.8	18.8	18.8	18.2	4-10	400	0.83	30
	11.4	16.9	18.6	17.1	6-10	600-1740	1.0	20
ARTHUR KILL								
OUTERBRIDGE REACH	33.1	35.2	35.6	34.4	5-09;4-10	600	1.6	35
PORT SOCONY REACH	31.8	34.5	34.5	33.0	4-09	600-800	0.87	35
PORT READING REACH	28.3	34.4	34.6	28.2	4-09	500-850	1.8	35
FRESH KILLS REACH	30.3	34.6	35.9	34.0	4-09	500	1.65	35
RARITAN RIVER:								
GREAT BEDS REACH (B)	17.6	20.4	20.4	16.5	6,7,8,9-10	300	0.76	25
SOUTH AMBOY REACH (B)	19.9	19.1	19.1	16.6	6,7,8,9-10	300	1.2	25

A. CONTROLLING DEPTHS ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM RARITAN RIVER.  
B. THE CORPS OF ENGINEERS REPORTS MIDDLE HALF OF CHANNEL.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12332

NM 21/11

RARITAN RIVER CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2010 AND SURVEYS TO SEP 2010							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
GREAT BEDS REACH	17.6	20.4	16.5	6,7,8,9-10	300	0.76	25
SOUTH AMBOY REACH	19.9	19.1	16.6	6,7,8,9-10	300	1.2	25
SANDY POINT REACH	21.3	24.5	25.3	6,7,8,9-10	300	0.83	25
KEASBEY REACH	14.8	16.6	13.2	6,7,8,9-10	300	1.17	25
RED ROOT REACH	11.9	17.1	15.5	6,7,8,9-10	300	0.48	25
TURNING BASIN	0.8	5.2	12.5	6,7,8,9-10	300-600	0.51	25
CRAB ISLAND REACH	A15.0	A14.5	12.5	9-88	200	1.2	15
NORTHWEST REACH	6.0	7.5	12.2	7-62	200	1.2	15
TITANIUM REACH	4.4	2.4	2.0	6,7,8,9-10	300	0.73	25
SOUTH CHANNEL	B2.0	C4.2	2.1	7-63;3,4-90	150	0.7	15-10

A. SHOALS LOCATED APPROXIMATELY 40°29'01.0"N, 74°21'16.0"W TO 400 YARDS SOUTH; A DEPTH OF 13 FT FOR A WIDTH OF 200 FT WAS AVAILABLE TO THE WEST OF THE PROJECT CHANNEL.  
B. POSSIBLE 6 FT OBSTRUCTION LOCATED AT 40°29'35.4"N, 74°19'04.5"W.  
C. POSSIBLE 4 FT OBSTRUCTION LOCATED AT 40°29'37.4"N, 74°19'04.0"W.  
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

## SECTION I

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Chart 12333

NM 21/11

ARTHUR KILL, KILL VAN KULL, NEWARK BAY, PORT NEWARK AND PORT ELIZABETH CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2010 AND SURVEYS TO JUL 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ARTHUR KILL (A)								
FRESH KILLS REACH	30.3	34.6	35.9	34.0	4-09	500	1.65	35
TREMLEY POINT REACH	30.5	35.6	36.3	29.2	4-09	500	0.85	35
PRALLS ISLAND REACH	31.9	33.6	35.2	27.0	4-09	500	1.13	35
GULFPORT REACH	32.6	36.2	37.0	30.3	4,12-09;1-10	500-600	1.03	35
ELIZABETHPORT REACH	40.9	43.6	43.4	40.7	12-09;1-10	600-800	0.91	35
NORTH OF SHOOTERS ISLAND REACH	40.8	42.2	40.9	38.4	12-09;1-10	600	0.97	35
SOUTH OF SHOOTERS ISLAND REACH	B6.5	B13.8	B14.5	B10.1	11-04	400	0.94	30
KILL VAN KULL (A)								
BERGEN POINT WEST REACH	50.2	52.5	52.1	49.6	12-09;1-10	800-1150	1.12	45
BERGEN POINT EAST REACH	48.9	53.0	52.9	50.5	12-09;1-10	800	1.09	45
CONSTABLE HOOK REACH	44.6	48.2	48.9	44.4	12-09;1-10	800-2000	2.52	45
NEWARK BAY								
SOUTH REACH	44.0	47.3	45.3	41.4	7-10	1000-1775	1.32	45
REACH B : MIDDLE REACH	43.0	46.6	40.2	33.1	7-10	800-1700	0.88	45
REACH B1 : MIDDLE REACH	34.4	38.2	34.1	27.3	7-10	560-800	0.53	40
NORTH REACH	21.4	21.6	19.6	7.4	7-10	500-1030	1.36	35
PORT NEWARK								
BRANCH REACH	27.0	38.8	36.1	30.5	7-10	400-1775	0.37	40
PORT ELIZABETH CHANNEL REACH	40.4	40.9	40.8	38.4	7-10	500-800	1.26	45
A. CONTROLLING DEPTHS IN ARTHUR KILL AND KILL VAN KULL ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM LOWER BAY.								
B. NUMEROUS WRECKS AND OBSTRUCTIONS WITH MINIMUM DEPTH TO 4 FEET WITHIN CHANNEL LIMITS.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

Chart 12333

NM 21/11

PORT ELIZABETH SOUTH AND PORT NEWARK CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2010 AND SURVEYS TO JUL 2010							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PORT ELIZABETH SOUTH REACH	41.7	42.6	43.2	7-10	140-290	0.43	45
PORT NEWARK : PIERHEAD REACH	31.0	31.3	28.7	7-10	300-750	0.65	40
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION							

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Chart 12337

NM 21/11

NEWARK BAY AND PORT NEWARK CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2010 AND SURVEYS TO JUL 2010								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
NEWARK BAY								
REACH B1: MIDDLE REACH	34.4	38.2	34.1	27.3	7-10	560-900	0.53	40
NORTH REACH	21.4	21.6	19.6	7.4	7-10	500-1030	1.36	35
TURNING BASIN	21.3	21.5	19.6	8.6	7-10	900	0.26	35
PORT NEWARK								
BRANCH REACH	27.0	38.8	36.1	30.5	7-10	400-1775	0.37	40
INSHORE REACH	33.2	32.0	30.7	30.7	7-10	400	1.06	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12337

NM 21/11

PASSAIC, HACKENSACK RIVERS AND PORT NEWARK CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2010 AND SURVEYS TO JUL 2010							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS	
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PASSAIC RIVER							
KEARNY POINT REACH	13.1	13.9	10.3	6,7-10	300	1.01	30
POINT NO POINT REACH	+0.1	4.5	8.5	6,7-10	300	1.13	30
HARRISON REACH	+0.6	5.1	1.0	6,7-10	300	1.87	20
NEWARK REACH	0.7	5.6	+0.7	6,7-10	300	1.28	A20
KEARNY REACH	+0.1	6.9	+0.5	6,7-10	300	0.85	A20
ARLINGTON REACH	3.1	8.6	+0.2	6,7-10	200-250	0.89	16
BELLEVILLE REACH - PARTIAL	0.9	2.5	7.6	6,7-10	235-205	0.16	10
BELLEVILLE REACH - UPPER (C)	2.0	2.3	11.0	1-04	150	1.3	10
NUTLEY REACH (C)	7.1	5.9	3.3	1-04	150	1.7	10
RUTHERFORD REACH (C)	4.0	7.6	4.2	1-04	150	2.2	10
WALLINGTON REACH (C)	+1.6	0.7	+1.2	1-04	150	0.9	10
HACKENSACK RIVER							
DROYERS REACH	25.3	24.1	17.5	4-10	300-500	1.56	B32
MARION REACH	23.4	24.1	19.2	4-10	300-370	1.82	B32
TURNING BASIN	14.5	14.5	14.5	4-10	irregular	0.23	25
PORT NEWARK							
PIERHEAD REACH	31.0	31.3	28.7	7-10	300-750	0.65	40

A. REACHES WERE NEVER COMPLETED TO A 20 FOOT DEPTH. PREVIOUS DREDGING WAS TO 16 FEET ONLY.  
 B. REACHES WERE NEVER COMPLETED TO A 32 FOOT DEPTH. PREVIOUS DREDGING WAS TO 30 FEET ONLY.  
 C. THE CORPS OF ENGINEERS HAS CONFIRMED THAT THIS REACH IS NOT ACTIVELY MAINTAINED.  
 D. SHOALING TO BARE EXTENDS ACROSS THE QUARTER ABOUT 370 YARDS DOWNSTREAM OF THE EIGHTH STREET BRIDGE  
 E. SHOALING TO BARE EXTENDS ACROSS THE QUARTER ABOUT 300 YARDS NORTH OF THE MAIN STREET BRIDGE  
 AND SHOALING TO 3.5 FEET FROM 40°46'04.5"N, 74°09'23.0"W TO 40°46'06.3"N 74°09'22.7"W

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION