Chart 11311 NM 49/13

CORPUS CHRISTI CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013

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)
LA QUINTA CH JCT TO BCN 82	41.4	52.0	52.0	41.8	5-13	400	9.66	45
BCN 82 TO MAIN TURNING BASIN	50.0	52.0	52.0	48.1	5-13	400-300	0.91	45
CORPUS CHRISTI:								
MAIN TURNING BASIN	51.0	52.0	52.0	51.0	5-13	300-800	1.21	45
INDUSTRIAL CANAL	46.0	48.0	48.0	47.0	5-13	400	0.59	45
AVERY POINT								
TURNING BASIN	43.0	49.0	48.0	44.0	5-13	400-975	0.47	45
CHEMICAL TURNING BASIN	46.5	46.0	47.0	46.0	5-13	400-1200	0.48	45
TULE LAKE CHANNEL	46.5	52.0	52.0	45.0	5-13	200-400	3.79	45
TULE LAKE TURNING BASIN	47.0	46.5	46.0	45.0	5-13	1200-300	0.45	45
VIOLA CHANNEL	45.9	47.0	45.1	33.2	5-13	300-200	1.71	45
VIOLA TURNING BASIN	44.0	46.5	46.1	45.4	5-13	700-900	0.3	45

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

Chart 11332 NM 49/13

SABINE PASS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013

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)
SABINE BANK CHANNEL	33.8	33.5	38.5	39.2	4-13	800	14.7	42
OUTER BAR CHANNEL	38.8	38.5	38.1	38.1	4-13	800	3.4	42
JETTY CHANNEL	30.8	31.0	29.5	29.1	5-13	800-500	4.1	40

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

Chart 11341 NM 49/13

SABINE PASS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013

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)
SABINE BANK CHANNEL	33.8	33.5	38.5	39.2	4-13	800	14.7	42
OUTER BAR CHANNEL	38.8	38.5	38.1	38.1	4-13	800	3.4	42
JETTY CHANNEL	30.8	31.0	29.5	29.1	5-13	800-500	4.1	40

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

Chart 11493 NM N49/13

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013
AND SURVEYS TO MAR 2013

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)
ENTRANCE CHANNEL	44.5	46.2	46.3	35.7	11,12-12	500	8.3	46
RANGE A	45.0	45.5	42.9	42.7	3-13	482	1.34	45
RANGE A1	46.6	44.9	44.1	40.4	3-13	593-757	0.35	45
RANGE A2	46.9	47.2	47.8	42.2	3-13	757-839	0.35	45
RANGE B	46.1	46.3	45.7	38.7	3-13	839-662	0.52	45
RANGE C	35.4	44.0	45.1	41.1	3-13	498	1.22	44
WIDENER AT C AND D	32.7	38.9	---	---	3-13	0-246	0.70	44
RANGE D	40.9	41.7	41.5	39.9	3-13	490	1.40	44
RANGE E	43.9	42.6	43.3	39.5	3-13	511	0.87	44
RANGE F (WARRIOR REACH)	35.5	44.0	43.5	40.7	3-13	555-836	0.26	44
RANGE G (SOUTH TURNING BASIN)	36.4	38.5	40.1	38.4	3-13	645-1032	0.78	44
RANGE H (TENNESSEE REACH)	32.5	43.3	42.5	38.7	3-13	1032-482	0.52	44
RANGE I	38.2	39.1	43.7	44.3	3-13	757-839	0.43	46
RANGE I (NORTH TURNING BASIN)	40.7	42.4	41.6	34.1	3-13	479-593	0.35	44

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

Chart 11494 NM N49/13

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013
AND SURVEYS TO MAR 2013

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)
ENTRANCE CHANNEL	44.5	46.2	46.3	35.7	11,12-12	500	8.3	46
RANGE A	45.0	45.5	42.9	42.7	3-13	482	1.34	45
RANGE A1	46.6	44.9	44.1	40.4	3-13	593-757	0.35	45
RANGE A2	46.9	47.2	47.8	42.2	3-13	757-839	0.35	45
RANGE B	46.1	46.3	45.7	38.7	3-13	839-662	0.52	45
RANGE C	35.4	44.0	45.1	41.1	3-13	498	1.22	44
WIDENER AT C AND D	32.7	38.9	---	---	3-13	0-246	0.70	44
RANGE D	40.9	41.7	41.5	39.9	3-13	490	1.40	44
RANGE E	43.9	42.6	43.3	39.5	3-13	511	0.87	44

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

Chart 11503 NM 49/13

ST. MARYS ENTRANCE AND CUMBERLAND SOUND CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2013
AND SURVEYS TO MAR 2013

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)
ENTRANCE CHANNEL	44.5	46.2	46.3	35.7	11,12-12	500	8.3	46
RANGE A	45.0	45.5	42.9	42.7	3-13	482	1.34	45
RANGE A1	46.6	44.9	44.1	40.4	3-13	593-757	0.35	45
RANGE A2	46.9	47.2	47.8	42.2	3-13	757-839	0.35	45
RANGE B	46.1	46.3	45.7	38.7	3-13	839-662	0.52	45
RANGE C	35.4	44.0	45.1	41.1	3-13	498	1.22	44
WIDENER AT C AND D	32.7	38.9	---	---	3-13	0-246	0.70	44
RANGE D	40.9	41.7	41.5	39.9	3-13	490	1.40	44
RANGE E	43.9	42.6	43.3	39.5	3-13	511	0.87	44
RANGE F (WARRIOR REACH)	35.5	44.0	43.5	40.7	3-13	555-836	0.26	44
RANGE G (SOUTH TURNING BASIN)	36.4	38.5	40.1	38.4	3-13	645-1032	0.78	44
RANGE H (TENNESSEE REACH)	32.5	43.3	42.5	38.7	3-13	1032-482	0.52	44
RANGE I	38.2	39.1	43.7	44.3	3-13	757-839	0.43	46
RANGE I (NORTH TURNING BASIN)	40.7	42.4	41.6	34.1	3-13	479-593	0.35	44

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

Chart 11516 NM 49/13

PORT ROYAL SOUND AND BEAUFORT RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2013
AND SURVEYS TO AUG 2013

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	19.4	16.1	14.2	8-13	500	5.2	27
BAYPOINT REACH	26.6	22.9	28.4	8-13	500	7.3	27
FORT FREMONT REACH	24.3	25.4	24.5	8-13	300-500	3.2	24
COWEN REACH	24.2	24.0	23.9	8-13	300	2.1	24
CAT ISLAND REACH	24.8	24.7	23.1	8-13	300	1.6	24
PORT ROYAL REACH	21.5	21.7	22.7	8-13	300	1.2	24
TURNING BASIN	22.7	12.4A	25.9	8-13	600	0.2	27

A. NEAR END OF PROJECT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11524 NM 49/13

CHARLESTON HARBOR, COOPER RIVER AND SHIPYARD RIVER
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS- SURVEYS TO JUL 2013

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)
ENTRANCE CHANNEL	43.3	48.1	48.3	43.7	6-13	A1000	17.5	B47
MOUNT PLEASANT RANGE	46.6	50.0	50.2	48.9	3-13	1000-600	1.8	45
REBELLION REACH	46.0	47.9	49.8	46.2	3-13	600	1.6	45
BENNIS REACH	45.2	48.3	47.6	47.5	3-13	600	1.5	45
HORSE REACH	50.8	50.6	49.9	45.0	3-13	(C) VARIES	0.6	45
CUSTOMHOUSE REACH	46.5	43.2	44.1	40.4	4-13	VARIES	0.6	45
SOUTH CHANNEL	25.0	25.0	25.0	D25.0	10-96; 11-10	600-1000	3.6	45
HOG ISLAND REACH	46.5	46.6	45.7	43.2	3-13	(E) 800-600	1.7	45
DRUM ISLAND REACH	43.4	44.9	48.9	46.8	3-13	1200-600	0.8	45
TIDEWATER REACH	F36.6	F35.5	F33.6	F34.8	3-13	650	0.7	45
TOWN CREEK LOWER REACH	F38.5	F40.9	F45.3	F44.9	3-13	450-400	1.1	45
TOWN CREEK LOWER REACH TB	44.1	37.2	37.2	37.7	3-13	300	0.25	35
TOWN CREEK UPPER REACH	40.7	40.5	40.5	41.7	7-11	250	1.0	16
MYERS BEND	49.2	49.1	48.1	46.1	3-13	VARIES	0.5	45
DANIEL ISLAND REACH	47.6	47.5	46.0	40.8	5,6-13	880	1.4	45
DANIEL ISLAND BEND	49.5	51.6	51.9	49.0	5,6-13	(G) 800-700	0.5	45
CLOUTER CREEK REACH	45.9	48.7	48.4	45.2	5,6-13	600	1.3	45
NAVY YARD REACH	47.4	48.9	48.5	45.4	5,6-13	600-700	1.1	45
NORTH CHARLESTON REACH	47.6	49.4	50.0	47.0	5,6-13	500-600	1.0	45
FILBIN CREEK REACH	47.2	48.6	47.5	48.4	5,6-13	500	0.9	45
PORT TERMINAL REACH	46.3	48.8	49.1	47.7	5,6-13	600	0.7	45
ORDNANCE REACH	47.3	48.0	47.7	49.2	5,6-13	600	0.4	45
ORDNANCE REACH TURNING BASIN	49.3	43.7	43.7	43.4	5,6-13	800	0.4	45
WANDO RIVER								
LOWER REACH	47.3	48.3	48.0	44.5	4-13	1500-400	1.4	45
UPPER REACH	F43.9	F44.6	F45.7	F44.0	4-13	850-600	0.9	45
TURNING BASIN	45.4	48.6	48.6	48.9	4-13	550	0.4	45
SHIPYARD CREEK								
MAIN CHANNEL	25.1	41.9	41.9	23.3	4-13; 7-13	1200-200	1.1	45-30
LOWER TURNING BASIN	42.9	40.0	40.0	39.8	7-13	VARIES	0.2	45
UPPER TURNING BASIN	21.9	23.1	23.1	21.0	9-12; 4-13; 7-13	VARIES	0.1	30
COOPER RIVER								
RANGE A	39.0	39.0	39.0	H37.0	6-11; 9-11	400-650	1.2	35
RANGE B	32.6	35.1	35.1	35.0	3-10; 6-11	500-700	0.9	35
RANGE C	22.0	32.8	39.0	35.0	1-99; 12-03; 6-11	550-1000	0.9	35
RANGE D	29.8	30.0	28.0	26.0	3-10; 6-11	400-650	0.7	35
RANGE E	31.0	36.0	38.0	38.0	6-11	350-650	0.4	35
RANGE F	25.0	34.0	36.0	34.0	1-95; 6-11	650-800	0.3	35

A. MAINTAINED 800 FEET WIDE.
B. FOR WIDTH OF 1000 FEET, THE PROJECT DEPTH IS 42 FEET FOR OUTER 100 FEET.
C. ONLY REPORTING 600' WIDTH FROM RIGHT TOE OF CHANNEL.
D. ALONG CHANNEL EDGE.
E. ONLY REPORTING 300' WIDTH FROM LEFT AND RIGHT OF CENTERLINE.
F. NEAR END OF PIER.
G. REPORTING 300' LEFT AND RIGHT OF CENTERLINE.
H. 31.0 FT ALONG CHANNEL EDGE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11532 NM 49/13

WINYAH BAY AND GEORGETOWN HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2013 AND SURVEYS TO AUG 2013

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)
ENTRANCE CHANNEL	24.4	24.5	20.6	15.4	8-13	600	2.4	27
RANGE B	24.3	28.6	29.1	24.3	8-13	600	1.0	27
SOUTH ISLAND BEND (A)	33.2	33.0	24.9	19.6	8-13	600	0.5	27
RANGE C	20.7	20.8	20.8	25.6	8-13	400	1.7	27
RANGE D	25.6	26.0	26.0	28.5	8-13	400B	1.7	27
RANGE E	19.5	19.5	19.5	19.1	8-13	400B	5.7	27
FRAZIER PT. BEND	22.3	21.9	21.9	21.8	8-13	400B	0.7	27
RABBIT ISLAND CHANNEL	24.6	24.6	24.6	24.6	8-13	400B	2.2	27
SAMPIT RIVER CHANNEL	3.8	4.3	4.3	4.0(E)	8-13	400B	1.3	27
STEELMILL CHANNEL	6.8	6.8	6.8	4.2	8-13	VARIES	0.3	27
PAPERMILL CHANNEL	17.4	20.5	20.5	23.2	8-13	VARIES	0.3	27
BYPASS CHANNEL	——	6.7	6.7	——	8-13	400C	1.2	18D

(A) THE LOWER PORTION OF SOUTH ISLAND BEND IS NOT SHOWN ON THE TAB DUE TO SEVERE SHOALING. CHANNEL LIMITS HAVE BEEN REMOVED AND HYDROGRAPHY SHOWN ON CHART. BUOYS MARK THE DEEPER WATER.
(B) MAINTAINED 300 FEET
(C) MAINTAINED 100 FEET
(D) MAINTAINED 12 FEET
(E) LESS THEN 4.0 FEET
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12327 NM 49/13

ARTHUR KILL, KILL VAN KULL, NEWARK BAY, PORT NEWARK AND PORT ELIZABETH CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013
AND SURVEYS TO MAR 2013

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	31.4	35.1	36.1	34.0	4,5-12;1,2,3-13	600-840	1.60	35
PORT SOCONY REACH	30.8	33.0	33.6	30.3	1,2,3-13	600-800	0.87	35
PORT READING REACH	25.1	34.3	34.3	23.6	1,2,3-13	500-850	1.80	35
FRESH KILLS REACH	30.0	34.6	35.3	33.2	1,2,3-13	500	1.65	35
TREMLEY POINT REACH	29.9	36.7	36.6	33.4	1,2,3-13	500	0.85	35
PRALLS ISLAND REACH	30.4	34.4	35.9	28.2	1,2,3-13	500	1.13	35
GULFPORT REACH	28.8	36.9	37.0	29.4	1,2,3-13	500-600	1.03	35
ELIZABETHPORT REACH	40.1	43.1	43.9	39.7	1,2-11	600-800	0.91	35
NORTH OF SHOOTERS ISLAND REACH	40.9	43.4	39.3	36.8	1,2-11	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	46.4	52.7	53.0	45.3	12-12	800-1150	1.17	45
BERGEN POINT EAST REACH	49.0	52.8	52.8	48.6	12-12	800	0.95	45
CONSTABLE HOOK REACH	48.4	52.1	52.3	47.4	12-12	800-1970	2.48	45
NEWARK BAY								
REACH A : SOUTH REACH	45.3	48.3	49.1	40.8	5,6-12	1000-3410	1.31	45
REACH B : MIDDLE REACH	46.1	48.2	49.0	48.3	5,6-12	800-1700	0.88	45
REACH B1 : MIDDLE REACH	34.3	36.9	33.4	26.7	5,6-12	520-800	0.53	40
REACH C : NORTH REACH	17.5	21.5	19.3	7.4	5,6-12	520-1030	1.36	35
PORT NEWARK								
BRANCH REACH	26.4	37.4	35.2	29.5	6-11	400-1775	0.37	40
INSHORE REACH	33.0	31.7	30.7	30.6	6-11	400	1.06	40
PORT ELIZABETH BRANCH REACH	39.8	40.0	39.4	37.2	12-11	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 12327 NM 49/13

LOWER BAY, CHAPEL HILL, RARITAN BAY AND RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013 AND SURVEYS TO MAY 2013

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER BAY:								
AMBROSE CHANNEL	39.9	45.9	45.8	41.7	4-03	2000	9.2	45
SANDY HOOK CHANNEL (EAST)	34.7	39.6	38.9	31.7	6-12	800-2160	4.5	35
SANDY HOOK CHANNEL (BAYSIDE)	27.6A	38.3	37.3	31.3	6-12	800	2.3	35
TERMINAL CHANNEL (NAVY)	45.0	45.0	45.0	45.0	9-09	400-1050	0.8	B45
TURNING BASIN (NAVY)	45.0	45.0	45.0	45.0	9-09	400-2300	0.6	B45
CHAPEL HILL:								
SOUTH CHANNEL (C)	*29.7	*28.9	*30.4	*21.4	3-13	1000	2.6	30
NORTH CHANNEL (C)	*28.9	*29.5	*29.4	*27.7	3-13	1000	2.2	30
RARITAN BAY:								
EAST REACH	32.9	39.1	37.9	33.6	4-13	600-800	3.9	35
WEST REACH	31.3	39.9	40.5	31.5	4-13	600	2.4	35
SEGUINE POINT BEND	28.9	34.3	35.7	18.6	4,5-12;4-13	600-1000	1.20	35
RED BANK REACH	33.2	40.9	40.8	32.9	4,5-12	600	1.23	35
WARD POINT BEND (EAST)	28.9	38.9	36.1	26.9	4,5-12	600-800	1.13	35
WARD POINT BEND (WEST)	34.3	35.3	32.7	29.0	4,5-12	600-800	1.35	35
WARD POINT SECONDARY CHANNEL	19.3	19.3	19.2	19.0	4,5-13	400	0.83	30
CUTOFF (D)	7.5	14.7	17.0	16.6	1-13	600-1740	1.0	20
RARITAN RIVER:								
GREAT BEDS REACH (E)	17.4	20.3	20.3	19.5	8-11	300	0.76	25
SOUTH AMBOY REACH (E)	17.8	19.8	19.8	16.4	8-11	300	1.2	25

A. AREA SUBJECT TO EXTENSIVE SHOALING. SHOALING TO 7.7 FEET EXISTS IN THE VICINITY OF 40°28'55.2"N, 74°00'17.0"W.

B. 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.

C. AN * DENOTES A SHOAL OBSTRUCTION. SPORADIC SHOAL OBSTRUCTIONS EXIST WITHIN THE CHANNEL BUT ARE NOT CHARTED. CONSULT CORPS OF ENGINEERS FOR LOCATION OF OBSTRUCTIONS.

D. CONTROLLING DEPTHS ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM RARITAN RIVER.

E. THE CORPS OF ENGINEERS REPORTS MIDDLE HALF OF CHANNEL.

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

Chart 12331 NM 49/13

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013 AND SURVEYS TO MAY 2013

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	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	32.9	39.1	37.9	33.6	4-13	600-800	3.9	35
WEST REACH	31.3	39.9	40.5	31.5	4-13	600	2.4	35
SEGUINE POINT BEND	28.9	34.3	35.7	18.6	4,5-12;4-13	600-1000	1.20	35
RED BANK REACH	33.2	40.9	40.8	32.9	4,5-12	600	1.23	35
WARD POINT BEND (EAST)	28.9	38.9	36.1	26.9	4,5-12	600-800	1.13	35
WARD POINT BEND (WEST)	34.3	35.3	32.7	29.0	4,5-12	600-800	1.35	35
WARD POINT SECONDARY CHANNEL	19.3	19.3	19.2	19.0	4,5-13	400	0.83	30
CUTOFF (A)	7.5	14.7	17.0	16.6	1-13	600-1740	1.0	20
ARTHUR KILL								
OUTERBRIDGE REACH	31.4	35.1	36.1	34.0	4,5-12;1,2,3-13	600-840	1.60	35
PORT SOCONY REACH	30.8	33.0	33.6	30.3	1,2,3-13	600-800	0.87	35
PORT READING REACH	25.1	34.3	34.3	23.6	1,2,3-13	500-850	1.8	35
FRESH KILLS REACH	30.0	34.6	35.3	33.2	1,2,3-13	500	1.65	35
RARITAN RIVER:								
GREAT BEDS REACH (B)	17.4	20.3	20.3	19.5	8-11	300	0.76	25
SOUTH AMBOY REACH (B)	17.8	19.8	19.8	16.4	8-11	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 49/13

RARITAN BAY AND ARTHUR KILL CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013
AND SURVEYS TO MAY 2013

	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:								
WARD POINT BEND (EAST)	28.9	38.9	36.1	26.9	4,5-12	600-800	1.13	35
WARD POINT BEND (WEST)	34.3	35.3	32.7	29.0	4,5-12	600-800	1.35	35
WARD POINT SECONDARY CHANNEL	19.3	19.3	19.2	19.0	4,5-13	400	0.83	30
CUTOFF (A)	7.5	14.7	17.0	16.6	1-13	600-1740	1.0	20
AUTHUR KILL:								
OUTERBRIDGE REACH	31.4	35.1	36.1	34.0	4,5-12;1,2,3-13	600-840	1.60	35

A. CONTROLLING DEPTHS ARE REFERENCED FROM SEAWARD WHEN ENTERING FROM RARITAN RIVER.

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

Chart 12333 NM 49/13

ARTHUR KILL, KILL VAN KULL, NEWARK BAY, PORT NEWARK AND PORT ELIZABETH CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013
AND SURVEYS TO MAR 2013

	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	30.0	34.6	35.3	33.2	1,2,3-13	500	1.65	35
TREMLEY POINT REACH	29.9	36.7	36.6	33.4	1,2,3-13	500	0.85	35
PRALLS ISLAND REACH	30.4	34.4	35.9	28.2	1,2,3-13	500	1.13	35
GULFPORT REACH	28.8	36.9	37.0	29.4	1,2,3-13	500-600	1.03	35
ELIZABETHPORT REACH	40.1	43.1	43.9	39.7	1,2-11	600-800	0.91	35
NORTH OF SHOOTERS ISLAND REACH	40.9	43.4	39.3	36.8	1,2-11	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	46.4	52.7	53.0	45.3	12-12	800-1150	1.17	45
BERGEN POINT EAST REACH	49.0	52.8	52.8	48.6	12-12	800	0.95	45
CONSTABLE HOOK REACH	48.4	52.1	52.3	47.4	12-12	800-1970	2.48	45
NEWARK BAY								
REACH A : SOUTH REACH	45.3	48.3	49.1	40.8	5,6-12	1000-3410	1.31	45
REACH B : MIDDLE REACH	46.1	48.2	49.0	48.3	5,6-12	800-1700	0.88	45
REACH B1 : MIDDLE REACH	34.3	36.9	33.4	26.7	5,6-12	520-800	0.53	40
REACH C : NORTH REACH	17.5	21.5	19.3	7.4	5,6-12	520-1030	1.36	35
PORT NEWARK								
BRANCH REACH	26.4	37.4	35.2	29.5	6-11	400-1775	0.37	40
PORT ELIZABETH BRANCH REACH	39.8	40.0	39.4	37.2	12-11	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 12401 NM 49/13

LOWER BAY, CHAPEL HILL AND RARITAN BAY CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013
AND SURVEYS TO APR 2013

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)
LOWER BAY:								
AMBROSE CHANNEL	39.9	45.9	45.8	41.7	4-03	2000	9.2	45
SANDY HOOK CHANNEL (EAST)	34.7	39.6	38.9	31.7	6-12	800-2160	4.5	35
SANDY HOOK CHANNEL (BAYSIDE)	27.6A	38.3	37.3	31.3	6-12	800	2.3	35
TERMINAL CHANNEL (NAVY)	45.0	45.0	45.0	45.0	9-09	400-1050	0.8	B45
TURNING BASIN (NAVY)	45.0	45.0	45.0	45.0	9-09	400-2300	0.6	B45
CHAPEL HILL:								
SOUTH CHANNEL (C)	29.7	28.9	30.4	21.4	3-13	1000	2.6	30
RARITAN BAY:								
EAST REACH	32.9	39.1	37.7	33.6	4-13	600-800	3.9	35
WEST REACH	31.3	39.9	40.5	31.5	4-13	600	2.4	35

A. AREA SUBJECT TO EXTENSIVE SHOALING. SHOALING TO 7.7 FEET EXISTS IN THE VICINITY OF 40°28'55.2"N, 74°00'17.0"W.

B. 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.

C. SPORADIC SHOAL OBSTRUCTIONS EXIST WITHIN THE CHANNEL BUT ARE NOT CHARTED. CONSULT CORPS OF ENGINEERS FOR LOCATION OF OBSTRUCTIONS.

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

Chart 12402 NM 49/13

LOWER BAY AND CHAPEL HILL CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2013
AND SURVEYS TO MAR 2013

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)
LOWER BAY:								
AMBROSE CHANNEL	39.9	45.9	45.8	41.7	4-03	2000	9.2	45
CHAPEL HILL:								
SOUTH CHANNEL (A)	*29.7	*28.9	*30.4	*21.4	3-13	1000	2.6	30
NORTH CHANNEL (A)	*28.9	*29.5	*29.4	*27.7	3-13	1000	2.2	30

A. AN * DENOTES A SHOAL OBSTRUCTION. SPORADIC SHOAL OBSTRUCTIONS EXIST WITHIN THE CHANNEL BUT ARE NOT CHARTED. CONSULT CORPS OF ENGINEERS FOR LOCATION OF OBSTRUCTIONS.

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