



SECTION I

NM 36/99

CHART 11344

NM 36/99

| CALCASIEU PASS AND RIVER | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 1999 | | | | | | | | |
| 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) |
| BAR CHANNEL | 28.0 | 40.0 | 40.0 | 28.0 | 2,4-99 | 800 | 19.1 | 42 |
| JETTY CHANNEL (29°44'33.8"N, 93°20'27.6"W) | 33.0 | 39.0 | 48.0 | 49.0 | 2,4-99 | 400 | 1.4 | 40 |
| THENCE TO LAKE CHARLES (30°13'07.8"N, 93°15'14.6"W) | 27.0 | 34.0 | 36.0 | 30.0 | 2-99 | 400 | 29.6 | 40 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

CHART 11347 (SIDE A)

NM 36/99

| CALCASIEU PASS AND RIVER | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 1999 | | | | | | | | |
| 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) |
| BAR CHANNEL | 28.0 | 40.0 | 40.0 | 28.0 | 2,4-99 | 800 | 19.1 | 42 |
| JETTY CHANNEL (29°44'33.8"N, 93°20'27.6"W) | 33.0 | 39.0 | 48.0 | 49.0 | 2,4-99 | 400 | 1.4 | 40 |
| THENCE TO LAKE CHARLES (30°13'07.8"N, 93°15'14.6"W) | 27.0 | 34.0 | 36.0 | 30.0 | 2-99 | 400 | 29.6 | 40 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

CHART 11347 (SIDE B, INSET 1)

NM 36/99

| CALCASIEU PASS AND RIVER | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 1999 | | | | | | | | |
| 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) |
| BAR CHANNEL | 28.0 | 40.0 | 40.0 | 28.0 | 2,4-99 | 800 | 19.1 | 42 |
| JETTY CHANNEL (29°44'33.8"N, 93°20'27.6"W) | 33.0 | 39.0 | 48.0 | 49.0 | 2,4-99 | 400 | 1.4 | 40 |
| THENCE TO LAKE CHARLES (30°13'07.8"N, 93°15'14.6"W) | 27.0 | 34.0 | 36.0 | 30.0 | 2-99 | 400 | 29.6 | 40 |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | | |

SECTION I

NM 36/99

CHART 11537

NM 36/99

| CAPE FEAR RIVER CHANNEL DEPTHS | | | | | | | | |
|---|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 1999 | | | | | | | | |
| 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) |
| BALDHEAD SHOAL | 37.4 | 38.3 | 39.2 | 37.5 | 6-99 | 500 | 3.0 | 40 |
| SMITH ISLAND | 30.9 | 39.0 | 41.9 | 41.4 | 2-99 | 500 | 1.0 | 40 |
| BALDHEAD CASWELL CHANNEL | 36.6 | 40.2 | 41.0 | 43.1 | 2-99 | 500 | 0.4 | 40 |
| SOUTHPORT CHANNEL | 42.3 | 42.1 | 37.2 | 33.0 | 2-99 | 500 | 1.0 | 40 |
| BATTERY ISLAND CHANNEL | 44.2 | 46.3 | 39.8 | 32.3 | 2-98 | 500 | 0.5 | 40 |
| LOWER SWASH | 36.0 | 38.5 | 39.8 | 35.7 | 3-99 | 400 | 1.6 | 38 |
| SNOWS MARSH | 35.1 | 38.8 | 37.3 | 36.9 | 2-99 | 400 | 3.1 | 38 |
| HORSESHOE SHOAL | 33.7 | 38.6 | 37.7 | 37.5 | 4-99 | 400 | 1.2 | 38 |
| REAVES POINT | 38.6 | 38.0 | 37.3 | 37.0 | 4-99 | 400 | 1.2 | 38 |
| LOWER MIDNIGHT | 38.9 | 39.2 | 39.9 | 38.0 | 4-99 | 400 | 1.6 | 38 |
| UPPER MIDNIGHT | 37.9 | 39.1 | 38.9 | 36.8 | 4-98 | 400 | 2.7 | 38 |
| LOWER LILLIPUT | 36.9 | 38.3 | 38.0 | 36.5 | 1-99 | 400 | 1.9 | 38 |
| UPPER LILLIPUT | 36.2 | 37.4 | 37.9 | 35.3 | 6-99 | 400 | 1.9 | 38 |
| KEG ISLAND | 36.5 | 38.5 | 37.0 | 32.7 | 4-99 | 400 | 1.4 | 38 |
| BIG ISLAND LOWER | 36.2 | 37.0 | 37.9 | 34.1 | 4-99 | 400 | 0.8 | 38 |
| BIG ISLAND UPPER | 38.1 | 38.7 | 38.6 | 36.1 | 4-99 | 400 | 0.5 | 38 |
| LOWER BRUNSWICK | 36.1 | 38.2 | 37.0 | 36.9 | 4-99 | 400 | 1.6 | 38 |
| UPPER BRUNSWICK | 36.5 | 38.8 | 39.8 | 35.8 | 4-99 | 400 | 1.0 | 38 |
| FOURTH EAST JETTY | 37.5 | 37.8 | 36.6 | 35.9 | 3-99 | 400 | 1.2 | 38 |
| BETWEEN CHANNEL | 35.4 | 39.8 | 38.0 | 35.5 | 4-99 | 550 | 0.8 | 38 |
| ANCHORAGE BASIN & APP CHANNEL | 31.0 | 35.8 | 36.9 | 33.5 | 3-99 | 450-1090 | 1.3 | 38 |
| HWY 74-76 TO BATTLESHIP | 30.4 | 32.4 | 34.4 | 29.1 | 3-99 | 400 | 0.6 | 32 |
| BATTLESHIP TO HWY 117 INCLUDING TURNING BASIN | 9.6 | 28.0 | 31.6 | 8.5 | 3-99 | 190-850 | - | 32 |
| HWY 117 TO HILTON BR THENCE TO END OF PROJECT AT 34°16'38"N, 77°57'01"W | 28.1 | 29.6 | 31.8 | 26.7 | 3-99 | 200-400 | 0.5 | 32 |
| TURNING BASIN | 21.9 | 24.4A | 23.8B | 17.4C | 10-98 | 200 | 1.2 | 25 |
| TURNING BASIN | 24.6 | 23.0 | 21.6 | 17.9 | 10-98 | 500 | 0.1 | 25 |

A. EXCEPT FOR SHOALING TO 21.9 FEET FOR THE LAST 150 FEET OF THE PROJECT.
 B. EXCEPT FOR SHOALING TO 12.3 FEET FOR THE LAST 150 FEET OF THE PROJECT.
 C. EXCEPT FOR SHOALING TO 12.2 FEET FOR THE LAST 150 FEET OF THE PROJECT.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 12224

NM 36/99

| CAPE CHARLES CITY HARBOR | | | | | | | | |
|--|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 1999 AND SURVEYS TO DEC 1998 | | | | | | | | |
| 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) |
| BAR CHANNEL | 11.6 | 12.6 | 15.4 | 17.6 | 12-98 | A500 | 0.66 | 18 |
| CAPE CHARLES HARBOR CHANNEL | 12.7 | 16.4 | 18.2 | 17.9 | 12-98 | A500-1000 | 1.70 | 18 |
| HARBOR BASIN | 14.9 | 15.1 | 16.0 | 15.8 | 11-98 | 1000-400 | 0.49 | 18 |
| MUD CREEK | 88.0 | 9.9 | 10.1 | 7.8 | 11-98 | 100-180 | 0.11 | 10 |
| HARBOR OF REFUGE | 6.6 | 7.2 | 7.0 | 6.1 | 11-98 | 200-250 | 0.13 | 7 |

A. CHANNEL MAINTAINED TO A WIDTH OF 300 FEET FOR BAR CHANNEL AND 300-1000 FEET FOR CAPE CHARLES HARBOR CHANNEL.
 B. 4.2 FT SHOAL AT NORTHEAST CORNER.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SECTION I

NM 36/99

CHART 12327

NM 36/99

| NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS | | | | | | | | |
|---|----------------------|---------------------|----------------------|-----------------------|----------------|--------------------|----------------------|-------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JULY 1999 AND SURVEYS TO JUNE 1999 | | | | | | | | |
| 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) |
| AMBROSE CHANNEL | 40.3 | 44.7 | 44.9 | 28.4 | 9-95 | 2000 | 9.2 | 45 |
| SANDY HOOK CHAN. (EAST) A | 38.6 | 42.2 | 40.0B | 32.7 | 5,6-97;8-97 | 800 | 3.5 | 35 |
| SANDY HOOK CHANNEL | 30.0 | 43.5 | 43.0 | 37.6 | 5,6-97; 8-97 | 800 | 2.4 | 35 |
| CHAPEL HILL: | | | | | | | | |
| SOUTH CHANNEL | 29.2 | 30.2 | 30.3 | 27.5 | 4,5-99 | 1000 | 2.7 | 30 |
| NORTH CHANNEL | 29.4 | 29.4 | 29.3 | 27.9 | 4,5-99 | 1000 | 1.8 | 30 |
| TERMINAL CHANNEL | 44.2 | 45.7 | 46.0 | 44.0 | 2-97 | 400 | 0.8 | 35 |
| KEYPORT HARBOR CHANNEL | 4.5 | 6.6 | 6.6 | 5.8 | 4,5-99 | 200 | 0.9 | 8 |
| RARITAN BAY EAST REACH | 35.6 | 38.0 | 37.3 | 33.9 | 11-97 | 600 | 4.0 | 35 |
| RARITAN BAY WEST REACH | 34.0 | 39.4 | 39.3 | 34.7 | 11-97 | 600 | 2.4 | 35 |
| SEGUINE POINT BEND | 30.2 | 36.3 | 39.0 | 30.6 | 11-97 | 600-800 | 1.2 | 35 |
| RED BANK REACH | 35.5 | 41.1 | 41.3 | 35.0 | 11-97 | 600 | 1.2 | 35 |
| WARD POINT BEND (EAST) | 32.7 | 35.9 | 37.7 | 32.1 | 11-97 | 600-800 | 1.1 | 35 |
| WARD POINT BEND (WEST) | 35.5 | 35.2 | 35.6 | 34.6 | 11-97 | 600-800 | 0.8 | 35 |
| RARITAN RIVER CUT OFF | 16.7 | 19.3 | 19.3 | 11.6 | 3-99 | 600-1100 | 1.0 | 20 |
| WARD POINT SECONDARY CHANNEL | 23.6 | 22.7 | 22.5 | 21.9 | 3-93 | 400 | 0.9 | 30 |
| GREAT BEDS REACH | 13.1 | 15.9 | 17.2 | 18.4 | 6,7-98 | 300 | 0.6 | 25 |
| SOUTH AMBOY REACH | 14.6 | 18.4 | 18.2 | 15.9 | 6,7-98 | 300 | 1.2 | 25 |

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.

B. DEPTH FROM NOS FIELD SURVEY AT 40°28'57" 73°59'36".

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

CHART 12331

NM 36/99

| RARITAN BAY, ARTHUR KILL AND RARITAN RIVER | | | | | | | | |
|---|----------------------|---------------------|----------------------|-----------------------|----------------|--------------------|----------------------|-------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 1999 AND SURVEYS TO MARCH 1999 | | | | | | | | |
| 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-WEST REACH | 34.0 | 39.4 | 39.3 | 34.7 | 11-97 | 600 | 2.4 | 35 |
| SEGUINE POINT BEND | 34.3 | 36.3 | 39.0 | 31.1 | 11-97 | 600-800 | 1.2 | 35 |
| RED BANK REACH | 35.5 | 41.1 | 41.3 | 35.0 | 11-97 | 600 | 1.2 | 35 |
| WARD POINT BEND (EAST) | 35.8 | 39.3 | 37.7 | 32.1 | 11-97 | 600-800 | 1.1 | 35 |
| WARD POINT BEND (WEST) | 35.5 | 35.2 | 35.6 | 33.9 | 11-97 | 600-800 | 0.8 | 35 |
| OUTERBRIDGE REACH | 34.1 | 35.0 | 35.0 | 32.2 | 4-96;11-97 | 600-800 | 0.8 | 35 |
| PORT SOCONY REACH | B20.7 | 35.2 | 36.4 | 32.3 | 12-92;1-93 | 600-800 | 0.8 | 35 |
| PORT READING REACH | A18.8 | 36.4 | 35.9 | 31.0 | 12-92;1-93 | 500 | 1.8 | 35 |
| FRESH KILLS REACH | A25.0 | 33.8 | 36.3 | 31.5 | 12-92;1-93 | 500 | 1.8 | 35 |
| RARITAN RIVER CUTOFF | 16.7 | 19.3 | 19.3 | 11.6 | 3-99 | 600-1100 | 1.0 | 20 |
| WARD POINT SECONDARY CHANNEL | 23.6 | 22.7 | 22.5 | 21.9 | 3-91 | 400 | 0.9 | 30 |
| GREAT BEDS REACH | 13.1 | 15.9 | 17.2 | 18.4 | 6,7-98 | 300 | 0.6 | 25 |
| SOUTH AMBOY REACH | 14.6 | 18.4 | 18.2 | 15.9 | 6,7-98 | 300 | 1.2 | 25 |

A. THE CHANNEL HAS SHOALED ALONG THE EDGE; A DEPTH OF 30 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.

B. ALONG THE EDGE OF THE CHANNEL.

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

SECTION I

NM 36/99

CHART 12332

NM 36/99

| RARITAN BAY, ARTHUR KILL AND RARITAN RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 1999 AND SURVEYS TO MARCH 1999 | | | | | | | | |
|--|----------------------------|---------------------------|----------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| 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) |
| WARD POINT BEND (EAST) | 32.7 | 39.3 | 37.7 | 32.1 | 11-97 | 600-800 | 1.1 | 35 |
| WARD POINT BEND (WEST) | 35.5 | 35.2 | 35.1 | 34.6 | 11-97 | 600-800 | 1.3 | 35 |
| OUTERBRIDGE REACH | 34.3 | 35.4 | 35.5 | 35.2 | 8-93; 11-97 | 600 | 1.6 | 35 |
| RARITAN RIVER CUTOFF | 16.7 | 19.3 | 19.3 | 11.6 | 3-99 | 600-1100 | 1.0 | 20 |
| WARD POINT SECONDARY CHANNEL | 23.6 | 22.7 | 22.5 | 21.9 | 3-91 | 400 | 0.9 | 30 |
| GREAT BEDS REACH | 13.1 | 15.9 | 17.2 | 18.4 | 6,7-98 | 300 | 0.6 | 25 |
| SOUTH AMBOY REACH | 14.6 | 18.4 | 18.2 | 15.9 | 6,7-98 | 300 | 1.2 | 25 |
| SANDY POINT REACH | 15.7 | 25.1 | 27.7 | 25.4 | 6,7-98 | 300 | 0.9 | 25 |
| KEASBEY REACH | 15.6 | 18.4 | 19.0 | 18.7 | 6,7-98 | 300 | 0.9 | 25 |
| RED ROOT REACH | 11.6 | 15.8 | 13.9 | 6.7 | 6,7-98 | 300 | 1.5 | 25 |
| CRAB ISLAND REACH | 15.0 | 14.5 | 14.5 | 12.5 | 9-88 | 200 | 1.2 | 15 |
| NORTHWEST REACH | A6.0 | A7.5 | A7.5 | 12.2 | 7-62 | 200 | 1.2 | 15 |
| TITANIUM REACH | 11.1 | 12.5 | 1.0 | 0.9 | 1-91 | 300 | 0.6 | 25 |
| SOUTH CHANNEL | C2.0 | D4.2 | B4.2 | B2.1 | 7-62;3,4-90 | 150 | 0.7 | 15-10 |

A. SHOALS LOCATED OPPOSITE RARITAN RIVER LIGHT 30 TO 400 YARDS SOUTH; A DEPTH OF 13 FEET FOR A WIDTH OF 200 FEET WAS AVAILABLE TO THE WEST OF THE PROJECT CHANNEL.
 B. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'34.4"N, 74°19'03.0"W.
 C. POSSIBLE 6 FT OBSTRUCTION LOCATED IN 40°29'35.4"N, 74°19'04.5"W.
 D. POSSIBLE 4 FT OBSTRUCTION LOCATED IN 40°29'37.4"N, 74°19'04.0"W.
 NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CHART 13232

NM 36/99

| NEW BEDFORD HARBOR CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 1999 AND SURVEYS TO OCT 1995 | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| 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) |
| ENTRANCE CHANNEL | 27.3 | 29.3 | 28.8 | 10-95 | 350 | 2.3 | 30 |
| FT. PHOENIX REACH | 24.6 | 28.1 | 27.7 | 10-95 | 350 | 1.5 | 30 |
| NEW BEDFORD REACH | 26.3 | 27.0 | 24.1 | 10-95 | 350-400 | 1.0 | 30 |

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

CHART 18583

NM 36/99

| SIUSLAW RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 1998 AND SURVEYS TO MAY 1999 | | | | | | | |
|--|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|-------------------------|
| 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) |
| ENTRANCE TO HIGHWAY BRIDGE | 10 | 9 | 11 | 7,8-98;5-99 | 300-200 | 5.0 | 18-16 |
| TURNING BASIN | 11 | 6 | 5 | 8-98 | 400 | 0.3 | 16 |
| TURNING BASIN TO CUSHMAN | 7 | 8 | 8 | 6,7-96; 5-97 | 150 | 2.1 | 12 |

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

SECTION I

NM 36/99

CHART 18652 (PAGE E)

NM 36/99

| SUISUN BAY AND SAN JOAQUIN RIVER | | | | | | | |
|--|----------------------|------------------------|-----------------------|----------------|--------------------|----------------------|-------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 1999 | | | | | | | |
| 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) |
| SUISUN PT. REACH | 45.2 | 45.8 | 47.9 | 11,12-97 | 300 | 0.8 | 35 |
| BULLS HEAD CHANNEL | 31.1 | 32.8 | 34.7 | 11,12-97 | 300-350 | 1.2 | 35 |
| EAST BULLS HEAD CHANNEL | 33.4 | 34.1 | 33.4 | 11,12-97 | 350 | 1.1 | 35 |
| PT. EDITH CROSSING RANGE | 36.2 | 35.9 | 32.2 | 11,12-97;10-98 | 350 | 1.1 | 35 |
| PRESTON PT. REACH | 36.5 | 35.5 | 32.5 | 11,12-97;10-98 | 350 | 0.9 | 35 |
| ROE ISLAND CHANNEL | 34.7 | 34.8 | 34.7 | 11,12-97;10-98 | 350 | 1.1 | 35 |
| PORT CHICAGO REACH | 36.7 | 36.7 | 37.0 | 11,12-97 | 350 | 0.52 | 35 |
| MIDDLE GROUND CHANNEL | | | | | | | |
| WEST REACH | 36.1 | 36.7 | 35.7 | 11,12-97 | 350 | 1.29 | 35 |
| EAST REACH | 34.7 | 36.7 | 35.4 | 11,12-97 | 350 | 1.09 | 35 |
| NEW YORK SLOUGH | | | | | | | |
| WEST REACH | 29.4 | 33.3 | 34.4 | 11,12-97 | 400 | 1.3 | 35 |
| EAST REACH | 30.6 | 33.3 | 30.3 | 11,12-97; 3-99 | 400 | 1.7 | 35 |
| SAN JOAQUIN RIVER | | | | | | | |
| ANTIOCH REACH | 30.1 | 31.3 | 30.1 | 3-99 | 400 | 3.3 | 35 |

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

CHART 18656

NM 36/99

| SUISUN BAY | | | | | | | |
|--|----------------------|------------------------|-----------------------|----------------|--------------------|----------------------|-------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 1999 | | | | | | | |
| 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) |
| SUISUN PT. REACH | 45.2 | 45.8 | 47.9 | 11,12-97 | 300 | 0.8 | 35 |
| BULLS HEAD CHANNEL | 31.1 | 32.8 | 34.7 | 11,12-97 | 300-350 | 1.2 | 35 |
| EAST BULLS HEAD CHANNEL | 33.4 | 34.1 | 33.4 | 11,12-97 | 350 | 1.1 | 35 |
| PT. EDITH CROSSING RANGE | 36.2 | 35.9 | 32.2 | 11,12-97;10-98 | 350 | 1.1 | 35 |
| PRESTON PT. REACH | 36.5 | 35.5 | 32.5 | 11,12-97;10-98 | 350 | 0.9 | 35 |
| ROE ISLAND CHANNEL | 34.7 | 34.8 | 34.7 | 11,12-97;10-98 | 350 | 1.1 | 35 |
| PORT CHICAGO REACH | 36.7 | 36.7 | 37.0 | 11,12-97 | 350 | 0.52 | 35 |
| MIDDLE GROUND CHANNEL | | | | | | | |
| WEST REACH | 36.1 | 36.7 | 35.7 | 11,12-97 | 350 | 1.29 | 35 |
| EAST REACH | 34.7 | 36.7 | 35.4 | 11,12-97 | 350 | 1.09 | 35 |
| NEW YORK SLOUGH | | | | | | | |
| WEST REACH | 29.4 | 33.3 | 34.4 | 11,12-97 | 400 | 1.3 | 35 |
| EAST REACH | 30.6 | 33.3 | 30.3 | 11,12-97; 3-99 | 400 | 1.7 | 35 |

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

CHART 18659

NM 36/99

| SUISUN BAY | | | | | | | |
|--|----------------------|------------------------|-----------------------|----------------|--------------------|----------------------|-------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 1999 | | | | | | | |
| 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) |
| NEW YORK SLOUGH | | | | | | | |
| WEST REACH | 29.4 | 33.3 | 34.4 | 11,12-97 | 400 | 1.3 | 35 |
| EAST REACH | 30.6 | 33.3 | 30.3 | 11,12-97; 3-99 | 400 | 1.7 | 35 |

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

SECTION I

NM 36/99

CHART 18661 (SIDE A)

NM 36/99

| SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|---------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 1999 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN METERS 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 (METERS) | LENGTH (NAUT. MILES) | DEPTH MLLW (METERS) |
| ANTIOCH TO LIGHT 17 | 9.1 | 9.5 | 9.1 | 3-99 | 122 | 3.3 | 10.6 |
| LIGHT 17 TO LIGHT 43 | A | A | A | | | | |
| LIGHT 43 TO LIGHT 51 | 9.9 | 10.0 | 10.2 | 3-99 | 183 | 1.5 | 10.6 |
| LIGHT 51 TO LIGHT 2 | A | A | A | | | | |
| LIGHT 2 TO LIGHT 6 | 10.4 | 10.5 | 10.7 | 3-99 | 68 | 1.5 | 10.6 |
| THENCE TO LIGHT 16 | 9.8 | 10.5 | 9.8 | 3-99 | 68-76 | 2.8 | 10.6 |
| THENCE TO LIGHT 24 | 9.7 | 10.3 | 9.0 | 3-99 | 68-76 | 2.1 | 10.6 |
| THENCE TO LIGHT 34 | 9.7 | 10.3 | 9.7 | 3-99 | 76 | 1.5 | 10.6 |
| THENCE TO LIGHT 43 | 9.7 | 9.9 | 9.4 | 3-99 | 61-76 | 3.4 | 10.6 |
| THENCE TO LIGHT 48 | 9.9 | 10.2 | 9.6 | 3-99 | 68-76 | 1.1 | 10.6 |
| THENCE TO TURNING BASIN | 8.7 | 10.3 | 10.3 | 3-99 | 76-68 | 0.8 | 10.6 |
| TURNING BASIN | 10.1 | 10.3 | 10.3 | 3-99 | 68-297 | 0.3 | 10.6 |
| A. SEE CHARTED SOUNDINGS. | | | | | | | |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

CHART 18661 (SIDE B)

NM 36/99

| SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL | | | | | | | |
|---|----------------------------|------------------------------|-----------------------------|----------------|--------------------|----------------------------|---------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 1999 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN METERS 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 (METERS) | LENGTH (NAUT. MILES) | DEPTH MLLW (METERS) |
| ANTIOCH TO LIGHT 17 | 9.1 | 9.5 | 9.1 | 3-99 | 122 | 3.3 | 10.6 |
| LIGHT 17 TO LIGHT 43 | A | A | A | | | | |
| LIGHT 43 TO LIGHT 51 | 9.9 | 10.0 | 10.2 | 3-99 | 183 | 1.5 | 10.6 |
| LIGHT 51 TO LIGHT 2 | A | A | A | | | | |
| LIGHT 2 TO LIGHT 6 | 10.4 | 10.5 | 10.7 | 3-99 | 68 | 1.5 | 10.6 |
| THENCE TO LIGHT 16 | 9.8 | 10.5 | 9.8 | 3-99 | 68-76 | 2.8 | 10.6 |
| THENCE TO LIGHT 24 | 9.7 | 10.3 | 9.0 | 3-99 | 68-76 | 2.1 | 10.6 |
| THENCE TO LIGHT 34 | 9.7 | 10.3 | 9.7 | 3-99 | 76 | 1.5 | 10.6 |
| THENCE TO LIGHT 43 | 9.7 | 9.9 | 9.4 | 3-99 | 61-76 | 3.4 | 10.6 |
| THENCE TO LIGHT 48 | 9.9 | 10.2 | 9.6 | 3-99 | 68-76 | 1.1 | 10.6 |
| THENCE TO TURNING BASIN | 8.7 | 10.3 | 10.3 | 3-99 | 76-68 | 0.8 | 10.6 |
| TURNING BASIN | 10.1 | 10.3 | 10.3 | 3-99 | 68-297 | 0.3 | 10.6 |
| A. SEE CHARTED SOUNDINGS. | | | | | | | |
| NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION | | | | | | | |

SECTION I

NM 36/99

CHART 18663

NM 36/99

| SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL | | | | | | | |
|--|--------------------|--------------------|--------------------|----------------|--------------------|----------------------------|---------------------------|
| TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAR 1999 | | | | | | | |
| CONTROLLING DEPTHS FROM SEAWARD IN METERS AT MEAN LOWER LOW WATER (MLLW) | | | | | PROJECT DIMENSIONS | | |
| NAME OF CHANNEL | LEFT | MIDDLE | RIGHT | DATE OF SURVEY | WIDTH (METERS) | LENGTH (NAUT. MILES) | DEPTH MLLW (METERS) |
| | OUTSIDE QUARTER | HALF OF CHANNEL | OUTSIDE QUARTER | | | | |
| LIGHT 2 (CHART 18661) TO LIGHT 6 | 10.4 | 10.5 | 10.7 | 3-99 | 68 | 1.5 | 10.6 |
| THENCE TO LIGHT 16 | 9.8 | 10.5 | 9.8 | 3-99 | 68-76 | 2.8 | 10.6 |
| THENCE TO LIGHT 24 | 9.7 | 10.3 | 9.0 | 3-99 | 68-76 | 2.1 | 10.6 |
| THENCE TO LIGHT 34 | 9.7 | 10.3 | 9.7 | 3-99 | 76 | 1.5 | 10.6 |
| THENCE TO LIGHT 43 | 9.7 | 9.9 | 9.4 | 3-99 | 61-76 | 3.4 | 10.6 |
| THENCE TO LIGHT 48 | 9.9 | 10.2 | 9.6 | 3-99 | 68-76 | 1.1 | 10.6 |
| THENCE TO TURNING BASIN | 8.7 | 10.3 | 10.3 | 3-99 | 76-68 | 0.8 | 10.6 |
| TURNING BASIN | 10.1 | 10.3 | 10.3 | 3-99 | 68-266 | 0.3 | 10.6 |

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

CHART 24233

NM 36/99

| ANCHORAGE AREAS |
|--|
| 1. Vessels waiting for a pilot are allowed to anchor for a maximum 48 hours. Vessels not entering Porto de Natal are allowed to anchor for a maximum 24 hours with Port Captain approval, 24 hours in advance. |
| 2. For recreational vessels. |

CHART 97227

NM 36/99

| CAUTIONS |
|--|
| 1. Depths of up to 2 meters less than charted may exist in the area. |
| 2. Depths of up to 4 meters less than charted may exist in the area. |
| 3. Depths of up to 6 meters less than charted may exist in the area. |