Chart 97226 NM 22/04

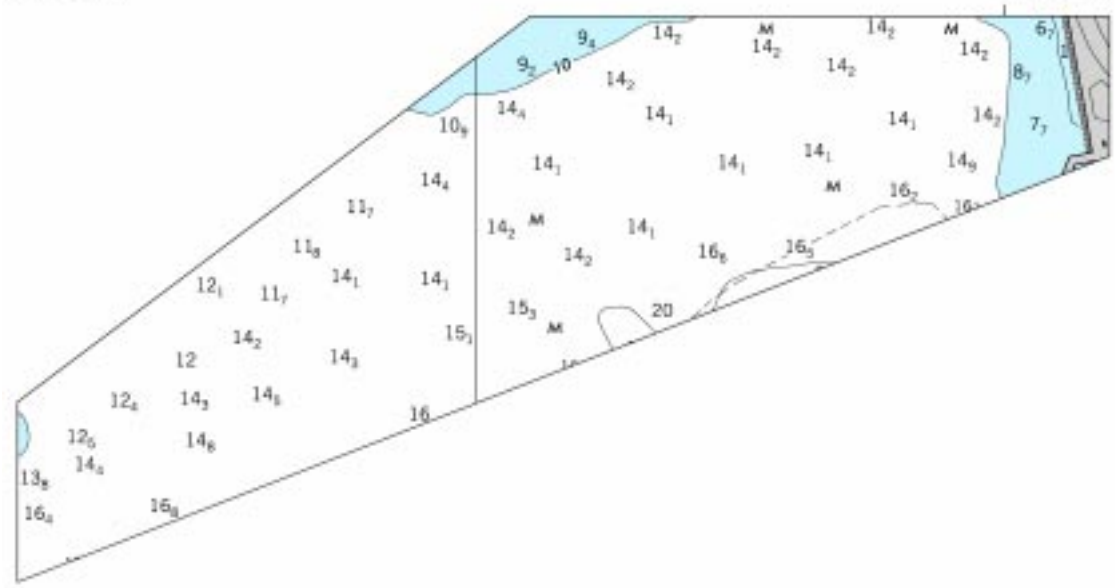
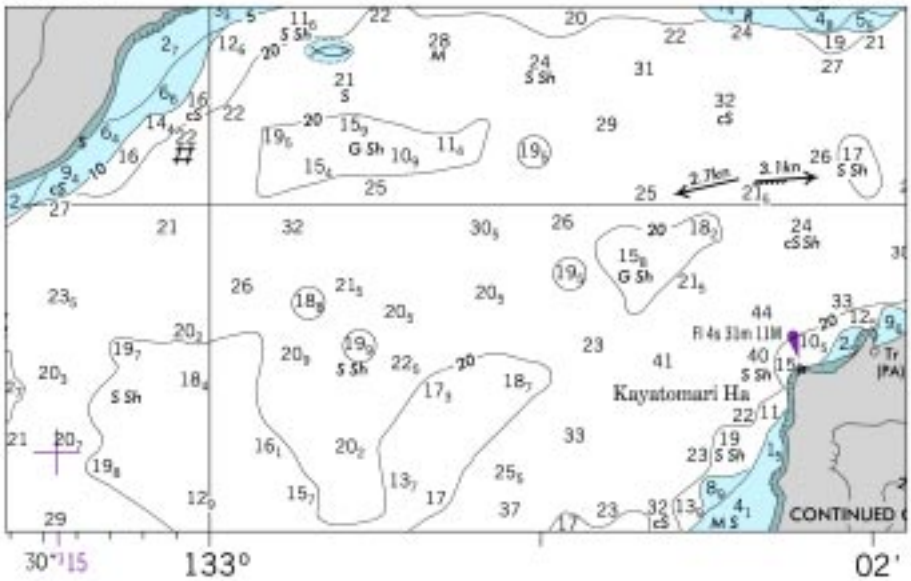


Chart 97243 NM 22/04



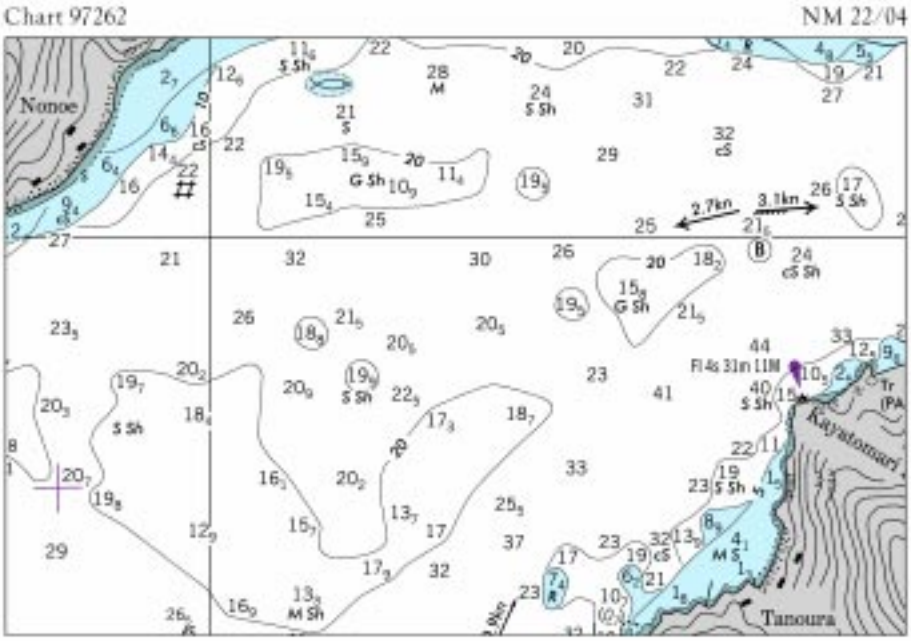


Chart 97262
NM 22/04
Nonoe
2.7kn
3.1kn
Fl 4s 31m 11M
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Chart 11373 NM 22/04

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004 AND SURVEYS TO NOV 2002

| 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 BELOW (FEET) |
| PASCAGOULA BAR CHANNEL | 41.7 | 43.6 | 42.4 | 1-04 | 450 | 3.3 | 44.0 |
| HORN ISLAND PASS CHANNEL | 44.0 | 44.0 | 36.0 | 1-04 | 600 | 1.2 | 44.0 |
| LOWER PASCAGOULA CHANNEL | 42.0 | 42.0 | 42.0 | 11-01 | 350 | 3.7 | 42.0 |
| UPPER PASCAGOULA CHANNEL | 36.0 | 35.8 | 34.1 | 6,8,10-02 | 350 | 5.6 | 38.0 |
| TURNING BASIN | 34.4 | 37.7 | 36.6 | 10-02 | 900 | 0.3 | 38.0 |
| BAYOU CASOTTE CHANNEL | 42.0 | 42.0 | 42.0 | 6-02;11-03;1,2-04 | 350 | 3.7 | 42.0 |
| TURNING BASIN | 41.4 | 39.1 | 39.0 | 11-03 | 850 | 0.3 | 42.0 |

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

Chart 11374 (Side B) NM 22/04

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004 AND SURVEYS TO NOV 2002

| 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 BELOW (FEET) |
| PASCAGOULA BAR CHANNEL | 41.7 | 43.6 | 42.4 | 1-04 | 450 | 3.3 | 44.0 |
| HORN ISLAND PASS CHANNEL | 44.0 | 44.0 | 36.0 | 1-04 | 600 | 1.2 | 44.0 |
| LOWER PASCAGOULA CHANNEL | 42.0 | 42.0 | 42.0 | 11-01 | 350 | 3.7 | 42.0 |
| UPPER PASCAGOULA CHANNEL | 36.0 | 35.8 | 34.1 | 6,8,10-02 | 350 | 5.6 | 38.0 |
| TURNING BASIN | 34.4 | 37.7 | 36.6 | 10-02 | 900 | 0.3 | 38.0 |
| BAYOU CASOTTE CHANNEL | 42.0 | 42.0 | 42.0 | 6-02;11-03;1,2-04 | 350 | 3.7 | 42.0 |
| TURNING BASIN | 41.4 | 39.1 | 39.0 | 11-03 | 850 | 0.3 | 42.0 |

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

Chart 11375 NM 22/04

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2004 AND SURVEYS TO NOV 2002

| 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 BELOW (FEET) |
| PASCAGOULA BAR CHANNEL | 41.7 | 43.6 | 42.4 | 1-04 | 450 | 3.3 | 44.0 |
| HORN ISLAND PASS CHANNEL | 44.0 | 44.0 | 36.0 | 1-04 | 600 | 1.2 | 44.0 |
| LOWER PASCAGOULA CHANNEL | 42.0 | 42.0 | 42.0 | 11-01 | 350 | 3.7 | 42.0 |
| UPPER PASCAGOULA CHANNEL | 36.0 | 35.8 | 34.1 | 6,8,10-02 | 350 | 5.6 | 38.0 |
| TURNING BASIN | 34.4 | 37.7 | 36.6 | 10-02 | 900 | 0.3 | 38.0 |
| BAYOU CASOTTE CHANNEL | 42.0 | 42.0 | 42.0 | 6-02;11-03;1,2-04 | 350 | 3.7 | 42.0 |
| TURNING BASIN | 41.4 | 39.1 | 39.0 | 11-03 | 850 | 0.3 | 42.0 |

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

Chart 12304 NM 22/04

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2004

| 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) |
| BRANDYWINE RANGE | 38.5 | 41.7 | 42.1 | 40.9 | 6-03 | 1000 | 10.94 | 40 |
| MAH MAULL RANGE | 40.5 | 43.7 | 41.2 | 40.0 | 6-03 | 1000 | 7.02 | 40 |
| CROSS LEDGE RANGE | 41.0 | 41.4 | 41.5 | 40.3 | 6-03 | 1000 | 9.39 | 40 |
| LISTON RANGE (BELOW SHIP JOHN LIGHT) | 42.3 | 41.4 | 41.5 | 40.3 | 6-03 | 1000 | 5.67 | 40 |
| LISTON RANGE (ABOVE SHIP JOHN LIGHT) | 41.4 | 40.6 | 40.6 | 41.8 | 7-03 | 1000-600 | 12.42 | 40 |

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

Chart 12311 NM 22/04

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2004

| 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) |
| LISTON RANGE (ABOVE SHIP JOHN LIGHT) | 41.4 | 40.6 | 40.6 | 41.8 | 7-03 | 1000-600 | 12.42 | 40 |
| BAKER RANGE | 44.6 | 46.4 | 40.0 | 38.0 | 3-03 | 800 | 1.65 | 40 |
| REEDY ISLAND RANGE | 42.3 | 42.0 | 42.7 | 39.2 | 3-03 | 800 | 4.28 | 40 |
| NEW CASTLE RANGE | 41.7 | 42.6 | 43.5 | 41.6 | 1-04 | 800 | 4.34 | 40 |
| BULKHEAD BAR RANGE | 45.0 | 47.3 | 43.7 | 36.4 | 7-03 | 1000 | 0.56 | 40 |
| DEEPWATER POINT RANGE | 38.6 | 40.9 | 40.5 | 39.6 | 12-03 | 800 | 3.76 | 40 |
| CHERRY ISLAND RANGE | 43.3 | 44.1 | 43.5 | 42.5 | 1-04 | 800 | 4.33 | 40 |
| BELLEVUE RANGE | 40.4 | 42.7 | 43.0 | 41.8 | 9-03 | 800 | 3.05 | 40 |

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

Chart 12312 NM 22/04

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2004

| 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) |
| CHERRY ISLAND RANGE | 43.3 | 44.1 | 43.5 | 42.5 | 1-04 | 800 | 4.33 | 40 |
| BELLEVUE RANGE | 40.4 | 42.7 | 43.0 | 41.8 | 9-03 | 800 | 3.05 | 40 |
| MARCUS HOOK RANGE | 41.6 | 42.2 | 42.4 | 43.4 | 11-03 | 800 | 4.25 | 40 |
| CHESTER RANGE | 40.5 | 41.2 | 41.6 | 40.2 | 10-03 | 800 | 1.82 | 40 |
| EDDYSTONE RANGE | 41.8 | 40.9 | 43.4 | 43.2 | 10-03 | 800 | 1.08 | 40 |
| TINICUM RANGE | 41.0 | 41.5 | 40.9 | 41.3 | 10-03 | 800 | 3.03 | 40 |
| BILLINGSPORT RANGE | 40.8 | 41.7 | 42.5 | 39.6 | 9-03 | 800 | 1.15 | 40 |
| MIFFLIN RANGE | 40.8 | 40.6 | 42.6 | 41.2 | 12-03 | 800 | 2.83 | 40 |
| EAGLE POINT RANGE (NAVY YARD) | 39.9 | 41.7 | 42.2 | 42.6 | 9-03 | 800 | 1.74 | 40 |
| HORSESHOE BEND | 38.0 | 42.6 | 46.2 | 43.8 | 9-03 | 800-500 | 0.88 | 40 |
| HORSESHOE RANGE AND REACH M | 40.0 | 40.0 | 44.8 | 43.9 | 9-03 | 500-400 | 1.17 | 40 |
| REACH M TO BENJAMIN FRANKLIN BRIDGE | 34.8 | 38.9 | 41.6 | 37.9 | 8-03 | 400 | 2.86 | 40 |
| BENJAMIN FRANKLIN BRIDGE TO CAMBRIA ST. | 40.5 | 40.8 | 40.3 | 41.4 | 8-03 | 400 | 2.00 | 40 |
| CAMBRIA ST. TO ALLEGHENY AVE. | 39.9 | 40.7 | 38.8 | 38.4 | 8-03 | 400 | 0.42 | 40 |
| FISHER POINT RANGE | 42.2 | 40.7 | 41.1 | 41.3 | 11-02 | 400 | 0.78 | 40 |
| FISHER CHANNEL | 41.9 | 44.3 | 44.7 | 41.8 | 11-02 | 400 | 0.31 | 40 |
| DRAW CHANNEL | 41.8 | 45.4 | 44.3 | 43.6 | 12-02 | 400 | 0.74 | 40 |

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

Chart 12313 NM 22/04

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JAN 2004

| 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) |
| TINICUM RANGE | 41.0 | 41.5 | 40.9 | 41.3 | 10-03 | 800 | 3.03 | 40 |
| BILLINGSPORT RANGE | 40.6 | 41.7 | 42.5 | 28.6 | 9-03 | 800 | 1.15 | 40 |
| MIFFLIN RANGE | 40.9 | 43.6 | 42.6 | 41.2 | 12-03 | 800 | 2.83 | 40 |
| EAGLE POINT RANGE (NAVY YARD) | 39.9 | 41.7 | 42.2 | 42.6 | 9-03 | 800 | 1.74 | 40 |
| HORSESHOE BEND | 36.0 | 43.8 | 46.2 | 43.8 | 9-03 | 600-500 | 0.80 | 40 |
| HORSESHOE RANGE AND REACH M | 40.0 | 43.0 | 44.6 | 43.9 | 9-03 | 500-400 | 1.17 | 40 |
| REACH M TO BENJAMIN FRANKLIN BRIDGE | 34.6 | 38.9 | 41.6 | 37.9 | 8-03 | 400 | 2.95 | 40 |
| BENJAMIN FRANKLIN BRIDGE TO CAMBRIA ST. | 40.5 | 43.8 | 40.3 | 41.4 | 9-03 | 400 | 2.06 | 40 |
| CAMBRIA ST. TO ALLEGHENY AVE. | 39.9 | 43.7 | 38.8 | 38.4 | 8-03 | 400 | 0.42 | 40 |
| FISHER POINT RANGE | 42.2 | 43.7 | 41.1 | 41.3 | 11-02 | 400 | 0.70 | 40 |
| FISHER CHANNEL | 41.9 | 44.3 | 44.7 | 41.8 | 11-02 | 400 | 0.31 | 40 |

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

Chart 12314 NM 22/04

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2003

| 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) |
| FISHER POINT RANGE (CHARTS 12313,12312) | 42.2 | 43.7 | 41.1 | 41.3 | 11-02 | 400 | 0.70 | 40 |
| FISHER CHANNEL | 41.9 | 44.3 | 44.7 | 41.8 | 11-02 | 400 | 0.31 | 40 |
| DRAW CHANNEL | 41.8 | 45.4 | 44.5 | 43.6 | 12-02 | 400 | 0.74 | 40 |
| DELAIR RANGE | 40.4 | 39.7 | 40.6 | 38.6 | 12-02 | 400 | 0.98 | 40 |
| BRIDESBURG CHANNEL | 43.2 | 44.2 | 45.4 | 40.9 | 12-02 | 400 | 0.31 | 40 |
| FRANKFORD CHANNEL | 40.8 | 41.1 | 40.0 | 37.8 | 12-02 | 400 | 1.05 | 40 |
| TACONY CHANNEL | 37.6 | 41.9 | 41.4 | 41.7 | 1-03 | 400 | 1.17 | 40 |
| TORRESDALE RANGE | 37.6 | 38.7 | 38.9 | 41.1 | 11-02 | 400 | 1.39 | 40 |
| MUD ISLAND RANGE | 40.0 | 39.5 | 40.0 | 38.8 | 11-02 | 400 | 1.67 | 40 |
| ENTERPRISE RANGE | 41.7 | 41.5 | 42.3 | 38.6 | 1-03 | 400 | 1.70 | 40 |
| BEVERLY CHANNEL | 38.3 | 41.5 | 43.8 | 38.4 | 1-03 | 400 | 0.65 | 40 |
| EDGEWATER CHANNEL | 37.5 | 39.3 | 41.0 | 39.4 | 1-03 | 400 | 1.37 | 40 |
| DEVLIN CHANNEL | 37.6 | 40.4 | 40.2 | 37.3 | 3-03 | 400 | 1.03 | 40 |
| LEHIGH CHANNEL | 38.5 | 42.5 | 42.6 | 39.1 | 3-03 | 400 | 0.66 | 40 |
| CANAL CHANNEL | 45.1 | 44.8 | 43.9 | 37.9 | 2-03 | 500 | 0.19 | 40 |
| BRISTOL RANGE | 41.9 | 43.1 | 43.2 | 41.7 | 2-03 | 400 | 0.62 | 40 |
| KEYSTONE RANGE | 38.4 | 40.6 | 44.1 | 42.8 | 2-03 | 400 | 0.42 | 40 |
| LANDRETH CHANNEL | 37.4 | 41.5 | 40.9 | 41.0 | 3-03 | 400 | 1.21 | 40 |
| FLORENCE BEND | 40.6 | 41.8 | 43.0 | 34.8 | 3-03 | 500 | 0.61 | 40 |
| FLORENCE RANGE | 38.0 | 42.2 | 42.0 | 38.2 | 3-03 | 400 | 1.34 | 40 |
| ROEBLING RANGE | 33.0 | 43.4 | 42.0 | 43.6 | 3-03 | 400 | 0.34 | 40 |
| KINKORA RANGE | 36.7 | 39.2 | 41.0 | 36.4 | 3-03 | 400 | 1.15 | 40 |
| PENN CHANNEL | 34.9 | 41.1 | 42.8 | 31.6 | 3-03 | 450 | 0.36 | 40 |
| NEWBOLD CHANNEL | 13.4 | 19.0 | 28.0 | 29.0 | 1-03 | 400 | 0.52 | 40 |
| BLAKE CHANNEL | 27.0 | 27.2 | 27.3 | 27.3 | 1-03 | 400 | 0.17 | 25 |
| WHITEHILL RANGE | 24.3 | 24.5 | 24.5 | 24.8 | 1-03 | 300 | 1.03 | 25 |
| RARITAN CHANNEL | 24.8 | 27.9 | 27.9 | 25.0 | 1-03 | 400 | 0.24 | 25 |
| BORDENTOWN RANGE | 17.3 | 24.5 | 24.4 | 18.8 | 1-03 | 300 | 0.65 | 25 |
| DUCK ISLAND RANGE | 16.1 | 17.1 | 17.5 | 18.7 | 1-03 | 300 | 1.25 | 25 |
| PERRIWIG CHANNEL | 20.1 | 20.4 | 20.9 | 20.9 | 11-00 | 400 | 0.24 | 25 |
| BILES ISLAND CHANNEL | 25.3 | 24.1 | 22.7 | 17.7 | 11-00 | 300 | 0.38 | 25 |
| COCHRAN CHANNEL | 29.1 | 37.6 | 25.0 | 17.3 | 11-00 | 300 | 0.31 | 25 |
| MOON CHANNEL | 6.8 | 13.4 | 11.6 | 11.5 | 11-00 | 500 | 0.39 | 25 |
| TRENTON CHANNEL: | | | | | | | | |
| SOUTH REACH | | 10.4 | 10.4 | | 11-00 | 200 | 0.49 | 12 |
| NORTH REACH | | 6.9 | 6.9 | | 11-00 | 200-300 | 0.55 | 12 |

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

Chart 12327 NM 22/04

NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2003
AND SURVEYS TO SEP 2003

| 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 | 39.9 | 45.9 | 45.8 | 41.7 | 4-03 | 2000 | 8.2 | 45 |
| SANDY HOOK CHANNEL (EAST) | 39.0 | 40.6 | 39.7 | 31.1 | 9-03 | A800-2200 | 3.5 | A35 |
| SANDY HOOK CHANNEL | 22.3 | 38.7 | 36.9 | 33.9 | 9-03 | 800 | 2.4 | 35 |
| CHAPEL HILL: | | | | | | | | |
| SOUTH CHANNEL | 28.5 | 29.5 | 30.1 | 27.7 | 10-02 | 1000 | 2.7 | 30 |
| NORTH CHANNEL | 28.7 | 29.1 | 29.0 | 27.9 | 10-02 | 1000 | 1.8 | 30 |
| TERMINAL CHANNEL | 44.2 | 45.7 | 46.0 | 44.0 | 3-97 | 400 | 0.8 | 35 |
| KEYPORT HARBOR CHANNEL | 5.1 | 6.5 | 6.0 | 5.2 | 9-03 | 100-200 | 0.9 | 9 |
| RARITAN BAY EAST REACH | 34.9 | 37.8 | 37.0 | 33.6 | 12-02; 1-03 | 600 | 4.0 | 35 |
| RARITAN BAY WEST REACH | 32.9 | 38.5 | 39.1 | 31.0 | 12-02; 1-03 | 600 | 2.4 | 35 |
| SEGUINE POINT BEND | 30.5 | 35.1 | 38.4 | 29.7 | 9-01 | 600-800 | 1.2 | 35 |
| RED BANK REACH | 34.0 | 40.3 | 40.5 | 34.2 | 9-01 | 600 | 1.2 | 35 |
| WARD POINT BEND (EAST) | 31.5 | 38.7 | 38.9 | 27.6 | 9,12-01 | 600-800 | 1.1 | 35 |
| WARD POINT BEND (WEST) | 35.0 | 35.0 | 35.0 | 33.0 | 9,12-01 | 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 | 21.3 | 21.0 | 20.9 | 20.6 | 12-02 | 400 | 0.9 | 30 |
| GREAT BEDS REACH | 20.5 | 22.9 | 24.5 | 23.1 | 7-03 | 300 | 0.8 | 25 |
| SOUTH AMBOY REACH | 23.2 | 24.0 | 22.9 | 22.4 | 7-03 | 300 | 1.2 | 25 |

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 800 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.

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

Chart 12327 NM 22/04

ARTHUR KILL, KILL VAN KULL, NEWARK BAY,
PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS-
REPORT OF JUL 2003 AND SURVEYS TO JUL 2003

| CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) | | | |
|---|---|---|---|
| NAME OF CHANNEL | DEPTH MLLW (FEET) | WIDTH (FEET) | DATE OF SURVEY |
| ARTHUR KILL (OUTERBRIDGE REACH TO N. OF SHOOTERS I. REACH) | A33.1 | 800-500 | 9-01; 3,12-02 |
| KILL VAN KULL (CONSTABLE HOOK REACH TO BERGEN PT. WEST REACH) | 36.8 | 2000-800 | 2-97; 10-02 |
| S. OF SHOOTERS I. REACH | B5.0 | 400 | 8-90 |
| NEWARK BAY (NEWARK BAY S. REACH TO DROYERS PT. REACH) | C16.7 | 1750-300 | 12-01 |
| PASSAIC RIVER (KEARNY PT. REACH TO ARLINGTON REACH) | D6.4 | 300-200 | 7-03 |
| HACKENSACK RIVER (DROYERS PT. REACH TO TURNING BASIN) | 16.7 | 300-600 | 7-03 |

A. A DEPTH OF 34.1 FEET WAS AVAILABLE IN THE MIDDLE HALF.
B. OBSTUCTIONS INTERSPERSED IN THE TWO RIGHT QUARTERS. THERE IS A MINIMUN DEPTH OF 5.9 FEET OVER WRECKAGE.
C. A DEPTH OF 21.9 FEET WAS AVAILABLE IN THE MIDDLE HALF, EXCEPT FOR SHOALING TO 8.4 FT AT 40° 42' 11.4" N 74° 06' 56.1" W.
D. A DEPTH OF 4.7 FEET WAS AVAILABLE IN THE MIDDLE HALF.

NOTE 1. SEE LARGE SCALE CHARTS FOR MORE DETAIL OF REACHES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 12331 NM 22/04

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2003 AND SURVEYS TO JUL 2003

| 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 | 32.9 | 38.5 | 39.1 | 31.0 | 12-02; 1-03 | 600 | 2.4 | 35 |
| SEGUINE POINT BEND | 39.5 | 35.1 | 38.4 | 29.7 | 9-01 | 600-680 | 1.3 | 35 |
| RED BANK REACH | 34.0 | 40.3 | 40.5 | 34.2 | 9-01 | 600 | 1.2 | 35 |
| WARD POINT BEND (EAST) | 31.6 | 38.7 | 36.9 | 27.6 | 9,12-01 | 600-680 | 1.1 | 35 |
| WARD POINT BEND (WEST) | 35.0 | 35.0 | 35.0 | 33.8 | 9,12-01 | 600-680 | 0.8 | 35 |
| OUTERBRIDGE REACH | 34.4 | 34.7 | 35.9 | 35.9 | 9-01; 3-02 | 600-680 | 0.8 | 35 |
| PORT SOCONY REACH | 31.9 | 35.0 | 35.6 | 33.4 | 3-02 | 600-680 | 0.8 | 35 |
| PORT READING REACH | 22.1 | 35.0 | 35.2 | 27.7 | 3-02 | 500 | 1.8 | 35 |
| FRESH KILLS REACH | 29.0 | 35.2 | 36.5 | 33.9 | 3-02 | 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 | 21.3 | 21.0 | 20.9 | 20.6 | 12-02 | 400 | 0.9 | 20 |
| GREAT BEDS REACH | 23.5 | 22.9 | 24.5 | 23.1 | 7-03 | 300 | 0.6 | 25 |
| SOUTH AMBOY REACH | 23.2 | 24.0 | 22.9 | 22.4 | 7-03 | 300 | 1.2 | 25 |

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

Chart 12332 NM 22/04

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2003 AND SURVEYS TO JUL 2003

| 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) | 31.6 | 38.7 | 36.9 | 27.6 | 9,12-01 | 600-680 | 1.1 | 35 |
| WARD POINT BEND (WEST) | 35.0 | 35.0 | 35.0 | 33.8 | 9,12-01 | 600-680 | 1.3 | 35 |
| OUTERBRIDGE REACH | 34.4 | 34.7 | 35.9 | 35.9 | 9-01; 3-02 | 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 | 21.3 | 21.0 | 20.9 | 20.6 | 12-02 | 400 | 0.9 | 20 |
| GREAT BEDS REACH | 23.5 | 22.9 | 24.5 | 23.1 | 7-03 | 300 | 0.6 | 25 |
| SOUTH AMBOY REACH | 23.2 | 24.0 | 22.9 | 22.4 | 7-03 | 300 | 1.2 | 25 |
| SANDY POINT REACH | 21.4 | 19.9 | 19.4 | 23.4 | 7-03 | 300 | 0.9 | 25 |
| KEASBEY REACH | 15.2 | 20.5 | 22.4 | 20.2 | 7-03 | 300 | 0.9 | 25 |
| RED ROOT REACH | 13.6 | 16.8 | 17.6 | 13.9 | 7-03 | 300 | 1.5 | 25 |
| CRAB ISLAND REACH | A15.0 | A14.5 | A14.5 | 12.5 | 9-88 | 200 | 1.2 | 15 |
| NORTHWEST REACH | 6.0 | 7.5 | 7.5 | 13.3 | 7-82 | 300 | 1.2 | 15 |
| TITANIUM REACH | 3.9 | 4.1 | 3.1 | 1.7 | 7-03 | 300 | 0.6 | 25 |
| SOUTH CHANNEL | C2.0 | D4.2 | B4.2 | B2.1 | 7-82,3,4-96 | 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 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 12337 NM 22/04

NEWARK BAY, PASSAIC AND HACKENSACK RIVERS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF DEC 2003
AND SURVEYS TO JUL 2003

| 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 MIDDLE REACH | 35.0 | 39.4 | 38.0 | 31.4 | 12-01 | 1750-930 | 1.4 | 40 |
| NEWARK BAY NORTH REACH | 33.3 | 33.7 | 21.9 | A18.7 | 12-01 | 900-500 | 1.1 | 35 |
| TURNING BASIN | 23.8 | 24.0 | 21.8 | A18.7 | 12-01 | 900 | 0.26 | 35 |
| PASSAIC RIVER: | | | | | | | | |
| KEARNY PT REACH | 16.4 | 18.3 | 16.9 | 13.3 | 7-03 | 300 | 1.1 | 30 |
| POINT NO POINT REACH | 1.8 | 6.6 | 13.2 | 9.2 | 7-03 | 300 | 1.1 | 30 |
| HARRISON REACH | B1.6 | 4.6 | 5.7 | 1.2 | 7-03 | 300 | 1.9 | 30 |
| NEWARK REACH | 1.7 | 6.6 | 10.4 | C0.5 | 7-03 | 300 | 1.3 | 20 |
| KEARNY REACH | 0.4 | 8.3 | 6.8 | D1.7 | 7-03 | 300 | 0.9 | 20 |
| ARLINGTON REACH | 2.6 | 10.6 | 9.0 | E6.0 | 7-03 | 200 | 0.9 | 16 |
| BELLEVILLE REACH | 0.1 | 0.4 | 6.0 | 9.9 | 6-92 H | 150 | 1.4 | 10 |
| NUTLEY REACH | 2.6 | 9.2 | 7.4 | 3.6 | 11-89 H | 150 | 1.7 | 10 |
| RUTHERFORD REACH | 1.7 | 5.1 | 3.0 | 3.7 | 11-89 H | 150 | 2.2 | 10 |
| WALLINGTON REACH | F2.2 | 1.5 | 1.9 | G1.1 | 11-89 H | 150 | 0.9 | 10 |
| HACKENSACK RIVER: | | | | | | | | |
| DRIVERS POINT REACH | 25.5 | 26.0 | 25.0 | 18.3 | 7-03 | 300-400 | 1.5 | 30 |
| MARION REACH | 26.8 | 29.1 | 29.1 | 23.0 | 7-03 | 300 | 1.8 | 30 |
| TURNING BASIN | 16.7 | 24.1 | 29.3 | 25.1 | 7-03 | 300-800 | 0.2 | 25 |
| PORT NEWARK CHANNEL: | | | | | | | | |
| BRANCH CHANNEL | 32.3 | 35.5 | 33.5 | 32.4 | 2,12-01 | 1050-400 | 0.4 | 40 |
| INSHORE CHANNEL | 36.3 | 34.6 | 30.1 | 28.7 | 1,2-01 | 400 | 1.1 | 35 |
| PIERHEAD CHANNEL | 33.8 | 35.6 | 35.0 | 33.4 | 1,2-01 | 300 | 0.7 | 40 |

A. EXCEPT FOR A SHOAL TO 7.7 FT AT 40° 42' 11.4" N 74° 06' 56.1" W ALONG THE RIGHT OUTSIDE QUARTER OF THE REACH.
B. EXCEPT FOR SHOALS, BARE AT M.L.L.W., FROM 40° 44' 26" N 74° 08' 18" W TO 40° 44' 23" N 74° 08' 26" W
C. EXCEPT FOR SHOALS, BARE AT M.L.L.W., FROM 40° 44' 03" N 74° 09' 24" W TO 40° 44' 04" N 74° 09' 31" W AND 40° 44' 07" N 74° 09' 38" W TO 40° 44' 08" N 74° 09' 39" W
D. EXCEPT FOR A SHOAL TO BARE FROM 40° 45' 06.0" N 74° 09' 52.0" W TO 40° 45' 12.0" N 74° 09' 51.0 W AND 40° 45' 38" N 74° 09' 43" W TO 40° 45' 31" N 74° 09' 47" W
E. EXCEPT FOR A SHOAL TO BARE FROM 40° 45' 58" N 74° 09' 27" W TO 40° 45' 59" N 74° 09' 25"W
F. A SHOAL BARE AT M.L.L.W. EXTENDS ACROSS THE LEFT OUTSIDE QUARTER ABOUT 370 YARDS DOWNSTREAM OF THE EIGHTH STREET BRIDGE.
G. A SHOAL BARE AT M.L.L.W. EXTENDS ACROSS THE RIGHT OUTSIDE QUARTER ABOUT 300 YARDS NORTH OF THE MAIN ST. BRIDGE AND SHOALING TO 0.3 FEET 175 FEET WEST OF THE SECOND ST. BRIDGE.
H. THE CORPS OF ENGINEERS HAS CONFIRMED THAT THIS REACH IS NOT ACTIVELY MAINTAINED.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12401 NM 22/04

NEW YORK HARBOR-LOWER BAY-CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2003
AND SURVEYS TO SEP 2003

| 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 | 39.9 | 45.9 | 45.8 | 41.7 | 4-03 | 2000 | 9.2 | 45 |
| SANDY HOOK CHANNEL (EAST) | 36.0 | 40.8 | 38.7 | 31.1 | 9-03 | A800-2200 | 3.5 | A35 |
| SANDY HOOK CHANNEL | 22.3 | 38.7 | 36.9 | 33.9 | 9-03 | 800 | 2.4 | 35 |
| CHAPEL HILL: | | | | | | | | |
| SOUTH CHANNEL | 26.5 | 29.5 | 30.1 | 27.7 | 10-02 | 1000 | 2.7 | 30 |
| TERMINAL CHANNEL | 44.2 | 45.7 | 46.0 | 44.0 | 2-97 | 400 | 0.8 | 35 |
| RARITAN BAY EAST REACH | 34.9 | 37.8 | 37.0 | 33.6 | 12-02; 1-03 | 800 | 4.0 | 35 |
| RARITAN BAY WEST REACH | 32.9 | 38.5 | 39.1 | 31.0 | 12-02; 1-03 | 800 | 2.4 | 35 |

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.

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

Chart 75130 NM 22/04

SHELLFISH BEDS

Shellfish culture activites occur within this area. Navigation through the area is prohibited. The limits of the sites are marked by special buoys, which may be lit or unlit.

Chart 75134 NM 22/04

SHELLFISH BEDS

Shellfish culture activites occur within this area. Navigation through the area is prohibited. The limits of the sites are marked by special buoys, which may be lit or unlit.

Chart 75190 NM 22/04

SHELLFISH BEDS

Shellfish culture activities occur within this area. The area may be used for navigation, but anchoring or other sub-surface activities are prohibited.