Chart 35028 (Plan A)
NM N42/04
Wear
B.A.
(Traffic & Danger)
Sunderland
Y.C.
Obstn
(Depth 1.6m)
Sunderland Marina
2·1m
North
Dock
Basin
FLG.5s
Fl(2)G.10s2M
BUILDING
(53)
BUILDING
(see Note)

Chart 12225 NM 42/04

RAPPAHANNOCK SHOAL CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 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)
RAPPAHANNOCK SHOAL CHANNEL	48.4	51.1	51.0	48.1	2-04	1000A	9.9	50

A. CHANNEL WIDTH MAINTAINED TO 800 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12226 NM 42/04

RAPPAHANNOCK SHOAL CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 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)
RAPPAHANNOCK SHOAL CHANNEL	48.4	51.1	51.0	48.1	2-04	1000A	9.9	50

A. CHANNEL WIDTH MAINTAINED TO 800 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12311 NM 42/04

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2004

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	31.2	30.8	32.5	8-04	500-340	0.70	38
THENCE TO THE LOBDELL CANAL	34.0	31.6	31.3	8-04	400	0.33	35
TURNING BASIN (OPPOSITE TERMINAL WHARF)	33.3	34.2	34.9	8-04	320	0.34	38

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

Chart 12312 NM 42/04

CHRISTINA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2004

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT CHRISTINA RIVER DATUM					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT MILES)	DEPTH (FEET)
ENTRANCE CHANNEL TO THE UPPER END OF THE TURNING BASIN	31.2	30.8	32.5	8-04	500-340	0.70	38
THENCE TO THE LOBDELL CANAL	34.0	31.6	31.3	8-04	400	0.33	35
TURNING BASIN (OPPOSITE TERMINAL WHARF)	33.3	34.2	34.9	8-04	320	0.34	38

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

Chart 18521 NM 42/04

COLUMBIA RIVER CHANNEL DEPTHS
ENTRANCE TO MILLER SANDS RANGE

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 20, 2004

* SEE FOOTNOTES						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ENTRANCE RANGE	58	58	52	42	7-04	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	48	51	50	47	7-04	2640	2.2	48
LOWER DESDEMONA SHOAL	44	45	44	40	7-04	600	3.4	40
UPPER DESDEMONA SHOAL	40	42	46	45	7-04	600	3.6	40
TANSY POINT TURN AND RANGE	38	40	41	33	7-04, 8-04	600	4.8	40
ASTORIA RANGE	40	42	43	41	7-04	600	2.7	40
TONGUE POINT CHANNEL	40	43	41	41	8-04	600	2.2	40
HARRINGTON POINT RANGE	39	41	44	39	7-04, 8-04	600	2.6	40
MILLER SANDS RANGE	39	41	40	39	7-04	600	2.2	40

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18521 NM 42/04

BAKER BAY WEST CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APRIL 2004

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 46°16'17.91"N 124°01'50.00"W	17	16	18	8-03	150	1.3	10
46°16'17.91"N 124°01'50.00"W TO FORT CANBY	15	16	16	8-03, 4-04	150	1.3	10
THENCE TO ILWACO	14	15	14	4-04	150	0.9	10
MOORING BASIN A. B.	3	3	3	1980	-	-	-

A. SHOALING TO 2 FEET ON RIGHT HALF, BETWEEN THE BREAKWATERS.
B. BASIN LOCALLY MAINTAINED. NO RECENT SURVEYS AVAILABLE.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18524 (Left Panel) NM 42/04

COLUMBIA RIVER CHANNEL DEPTHS
GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 20, 2004

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
GULL I TURN AND CHANNEL	45	50	40	35	8-04	600	2.2	40
STELLA RANGE	38	40	37	37	8-04	600	2.8	40
FISHER I CHANNEL	42	42	39	38	8-04	600	0.9	40
WALKER I CHANNEL	37	42	36	35	8-04	600	1.5	40
BARLOW PT. CHANNEL	42	44	40	39	8-04	600	1.3	40
SLAUGHTERS CHANNEL	39	40	40	39	7-04	600	2.3	40
SLAUGHTERS TURN AND CHANNEL OPPOSITE THE TURNING BASIN	39	39	40	39	7-04	600	1.7	40
COTTONWOOD ISLAND LOWER RANGE	41	41	41	39	8-04	600	1.7	40
COTTONWOOD ISLAND TURN	43	42	40	38	7-04, 8-04	600	2.7	40
COTTONWOOD ISLAND UPPER RANGE	41	41	40	40	7-04	600	1.6	40
KALAMA LOWER RANGE	42	36	41	32	7-04	600	1.8	40
KALAMA UPPER RANGE	38	41	40	39	7-04, 8-04	600	2.2	40
BYBEE LEDGE CHANNEL	40	41	42	39	8-04	600	2.1	40
MARTIN ISLAND CHANNEL	42	39	38	38	8-04	600	2.1	40
MARTIN ISLAND RANGE	39	42	42	41	8-04	600	1.4	40
COLUMBIA CITY CHANNEL	38	40	38	38	8-04	600	1.2	40
ST. HELENS RANGE	39	40	41	38	7-04	600	2.0	40
ST. HELENS TURN	42	43	41	36	7-04, 8-04	600	1.7	40

* CONTROLLING DEPTHS ROUNDED TO NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18525 NM 42/04

COLUMBIA RIVER CHANNEL DEPTHS
SAINT HELENS TURN TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORTS OF AUG 20, 2004

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ST. HELENS TURN	42	43	41	36	7-04, 8-04	600	1.7	40
WARRIOR ROCK RANGE	39	40	39	38	8-04	600	1.3	40
DUCK CLUB TURN	37	37	42	42	8-04	600	1.4	40
HENRICI RANGE	37	39	38	39	8-04	600	2.6	40
FALES CHANNEL	41	41	38	38	8-04	600	1.1	40
KNAPP POINT CHANNEL	39	41	40	38	8-04	600	1.8	40
WILLOW LOWER RANGE	39	41	41	38	8-04	600	2.1	40
WILLOW UPPER RANGE	40	43	40	46	8-04	600	1.1	40
MORGAN BAR	42	44	49	49	8-04	600	1.0	40
MORGAN CHANNEL	46	44	41	42	8-04	600	1.5	40
VANCOUVER LOWER CHANNEL	46	47	49	47	8-04	500	1.0	40
VANCOUVER RANGE	40	42	42	41	8-04	500	1.3	40
VANCOUVER UPPER CHANNEL	41	42	38	39	8-04	500	0.9	40
VANCOUVER LOWER TURNING BASIN	37	38	41	41	8-04	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	27	25	24	8-04	800	0.9	35
TOMAHAWK BAR	18	18	18	17	11-03	300	3.7	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18526 NM 42/04

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 20, 2004

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	46	44	41	42	8-04	600	1.5	40
VANCOUVER LOWER CHANNEL	46	47	49	47	8-04	500	1.0	40
VANCOUVER RANGE	40	42	42	41	8-04	500	1.3	40
VANCOUVER UPPER CHANNEL	41	42	38	39	8-04	500	0.9	40
VANCOUVER LOWER TURNING BASIN	37	38	41	41	8-04	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	27	25	24	8-04	800	0.9	35
TOMAHAWK BAR	18	18	18	17	11-03	300	3.7	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT

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

Chart 18587 NM 42/04

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS

TABULATED FROM SURVEYS AND REPORTS BY THE COPRS OF ENGINEERS - SURVEYS TO JUL 2004

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 RANGE	38	39	38	7-04	---	1.9	47-37
ENTRANCE RANGE AND TURN	39	48	31	3-04	300-1050	0.5	37
INSIDE RANGE	38	38	38	3-04	300	0.6	37
COOS BAY RANGE	36	37	36	3-04; 5-04	300	1.6	37
EMPIRE RANGE	36	38	38	5-04	300	1.3	37
LOWER JARVIS RANGE	38	38	37	7-04	300	0.8	37
JARVIS TURN	37	40	35	7-04	300	0.5	37
UPPER JARVIS RANGE	32	35	35	7-04	300-700	1.9	37
NORTH BEND LOWER RANGE	39	38	38	7-04	400	0.4	37
NORTH BEND RANGE	34	37	36	6-04	400	0.9	37
NORTH BEND UPPER RANGE	37	38	36	6-04	400	0.6	37
LOWER TURNING BASIN	36	37	35	6-04	400-900	0.3	37
FERNDALE LOWER RANGE	37	40	38	7-04	400	0.4	37
FERNDALE TURN	32	38	38	7-04	400	0.2	37
FERNDALE UPPER RANGE	25	38	35	7-04	400	0.7	37
MARSHFIELD RANGE	36	35	31	7-04	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	34	35	35	7-04	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22

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

Chart 35002 NM N42/04

CAUTION: CHARTS REFERRED TO A WGS84 COMPATIBLE DATUM.

Caution must be exercised in the transfer of positions from this chart to those adjoining/larger scale/smaller scale charts which are referred to a WGS84 compatible datum. For further details, including an example of the calculation of the WGS84 position, see Annual Notice to Mariners No.19.

Chart 35055 NM N42/04

CAUTION: CHARTS REFERRED TO A WGS84 COMPATIBLE DATUM.

Caution must be exercised in the transfer of positions from this chart to those adjoining/larger scale/smaller scale charts which are referred to a WGS84 compatible datum. For further details, including an example of the calculation of the WGS84 position, see Annual Notice to Mariners No.19.