CORPS OF ENGINEERS

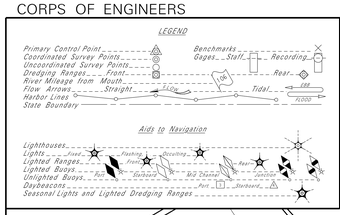
U.S. ARMY

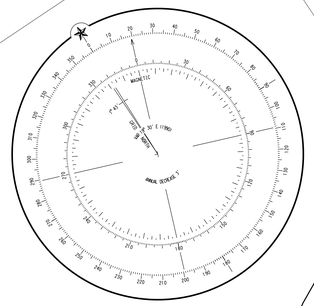
LEGEND

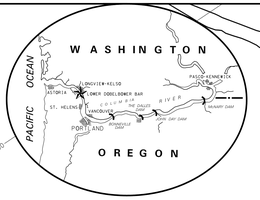
Primary Control Point — Benchmarks
Coordinated Survey Points — Gages — Staff — Recording
Uncoordinated Survey Points
Dredging Ranges — Front — Rear
River Mileage from Mouth — Straight — Tidal
Flow Arrows
Harbor Lines
State Boundary

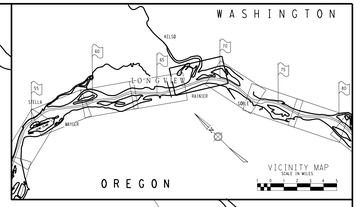
Aids to Navigation

Lighthouses
Lights — Fixed
Lighted Ranges — Fixing — Occulting — Rear — Leading
Lighted Buoys — Nun — Can — Bell — Gong — Whistle — Spar — Bell & Gong
Unlighted Buoys — Bell — Gong — Whistle — Spar — Bell & Gong — Can — Nun
Daybeacons — Port — Starboard
Seasonal Lights and Lighted Dredging Ranges









WASHINGTON

OREGON

LONGVIEW

LONGVIEW FIBRE

INTERNATIONAL PAPER

OLD MOUTH COWLITZ RIVER

CARROLLS CHANNEL

HOWARD ISLAND

COTTONWOOD ISLAND

RAINIER

HARBAN

BART

CWR-3

BROCK

HUB

Cowlitz River Entrance 1 FIG

BELL

AZ MARK

CARL AZ

EM

CWR-1

International Paper Dock, 2 FR

Dock Tack

FLOW

WASHINGTON
OREGON

Ten Mile Dirt Cut

RAINIER 2 #1

RAINIER 2

27 PIPE

TOWN

MILL

BLUFF

Shingle Dock

War Cap

WARREN 2

Cottonwood Island Lower Range Front, OR FIW

Cottonwood Island Lower Range Rear, E Int W

Cottonwood Island Dike 32 FIG

Cottonwood Island Dike 33 FIG

Cottonwood Island Dike 34

Cottonwood Island Dike 35 FIG

Cottonwood Island Dike 37 FIG

ISLAND Rear

ISLAND

STAFF GAGE

Dam Cap

D-9

D-7

Thayers Dirt

NOTES

Control is by USACE and NOS-C&GS.
Coordinates are based on the Lambert Projection for Oregon, North Zone (NAD 83, U.S. Survey Feet).
Datum is Columbia River Datum. (CRD is 0.17 feet below National Geodetic Vertical Datum at Columbia River Mile 68.0, 1947 adjustment.)
Soundings are shown in feet and indicate depths below CRD.
Elevations are shown thus: +2, indicating height in feet above CRD.
The CRD plane is shown thus:
The project depth curve is shown thus:
Reference is Navigation Chart No. 18524.
River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basin Commission, July 1972.

The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the general condition existing at that time.

■ CONDITION ☐ PREDREDGE ☐ POSTDREDGE

THE EXISTING PROJECT

provides for a channel 40 feet deep and 600 feet wide from deep water in the Columbia River Entrance at river mile 2.0 to river mile 101.4 at the Mouth of the Willamette River; and also—

provides for a channel on the Washington side 8 feet deep, 150 feet wide, and 4500 feet long from deep water in the Columbia at river mile 67.5 up the Old Mouth of the Cowlitz River.

COLUMBIA AND LOWER WILLAMETTE RIVERS
BELOW VANCOUVER, WASH. AND PORTLAND, OREG.

COLUMBIA RIVER
LOWER DOBELBOWER BAR

22 APRIL 2004

SCALE IN FEET
500 0 500 1000 1500 2000

U.S. ARMY ENGINEER DISTRICT, PORTLAND
OPERATIONS DIVISION

SUBMITTED

CHIEF, HYDROGRAPHIC SURVEYS RECOMMENDED

CHIEF, WATERWAYS MAINTENANCE SECTION

APPROVED

OPERATIONS MANAGER, CHANNELS AND HARBORS PROJECT

(18)

SURVEYED 01 JUL 04 PLOTTED 05 JUL 04 CHECKED JUL 04

CL-67-735