



**LEGEND**

- Federal Navigation Channel
- Federal Navigation Channel Centerline
- Pipeline, Submarine On Land Line
- Cable, Overhead
- Cable, Submarine
- Pipeline, Overhead
- Anchorage Area
- Dredged Material Placement Area
- Cable Area
- Pipeline Area
- Shallowing Area
- Buoy, Lateral
- Buoy, Cardinal
- Buoy, Isolated Danger
- Buoy, Safe Water
- Buoy, Special Purpose
- Beacon, General
- Benchmark
- Pylon Bridge Support
- Rock
- Obstruction Point
- Wreck-Submerged
- Staff Gage
- Steel King Pile
- Shoalest Sounding\*\*

**NOTES:**

Horizontal Coordinate System:  
North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Oregon North Zone. Distance units in U.S. Survey Feet.

Vertical Datum:  
Soundings are shown in feet and indicate depths below Mean Lower Low Water. MLLW is 0.11 feet below the North American Vertical Datum (NAVD 88 Geoid 09) at Columbia River Mile 8.6, 0.08 feet below at Columbia River Mile 9.8.

River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.

The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general channel conditions existing at that time and is in support of channel maintenance only.

\*\* Shoalest Sounding per Quarter per Reach

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

**COLUMBIA RIVER  
UPPER DESDEMONA SANDS**

19 December 2024

SCALE IN FEET  
0 500 1,000 1,500 2,000 2,500

SUBMITTED: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
RECOMMENDED: \_\_\_\_\_ CHIEF, WATERWAYS MAINTENANCE SECTION  
CHIEF, SURVEY SECTION \_\_\_\_\_ SURVEYED: \_\_\_\_\_ CHECKED: \_\_\_\_\_

CONDITION  PREDREDGE  POSTREDGE

STAFF GAGE AT WOODEN PILING: Northing: 945307 Easting: 7328118  
STAFF GAGE AT HAMMOND: Northing: 943437 Easting: 7328429

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**THE EXISTING PROJECT**

The existing project provides for a channel 43 feet deep and 600 feet wide from deep water in the Columbia River Entrance at river mile 3.0 to river mile 101.4 at the Mouth of the Willamette River.

2012 Aerial Photography data source: USDA, Service Center Agencies - Reference is Navigation Chart No. 18521