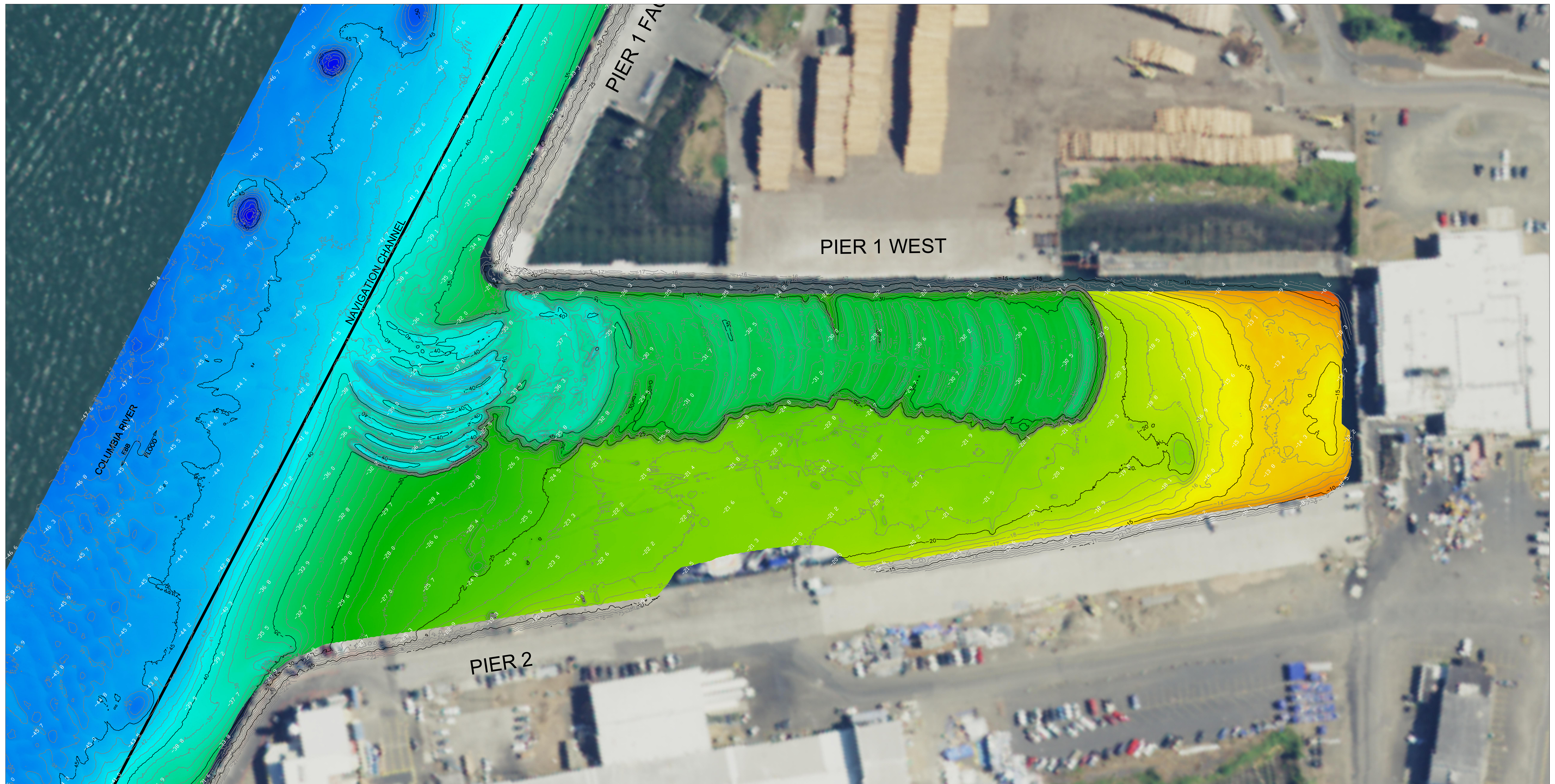


Port of Astoria

Central Waterfront Post-Dredge Bathymetric Survey

March 7, 2024



- NOTES:**
- HORIZONTAL DATUM NAD 83 (2011) STATE PLANE COORDINATES, OREGON NORTH ZONE.
 - UNITS: U.S. SURVEY FEET
 - VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW). MLLW DETERMINED FROM USACE TIDE BOARD LOCATED ON THE ASTORIA BRIDGE PIER AND USACE MONUMENT 1450 19 (ELEV. = 5.87 FT).
 - CONTOUR INTERVAL: 1 FOOT. CONTOURS WERE DEVELOPED FROM A GRIDDED 1 FT X 1 FT DATASET USING AN INVERSED WEIGHTED AVERAGE OF ALL SOUNDINGS.
 - ALL HORIZONTAL POSITIONING AND VESSEL ATTITUDE WAS PROVIDED IN REAL TIME USING AN APPLANIX POS-MV RTK GPS AIDED INERTIAL SENSOR RECEIVING RTK CORRECTIONS FROM A TRIMBLE RTK BASE STATION.
 - SOUNDINGS WERE COLLECTED USING A RESONIC 2022 MULTIBEAM SONAR SYSTEM AND DATA PROCESSING WAS COMPLETED USING HYPACK.HI SWEEP SOFTWARE.
 - THIS BATHYMETRIC SURVEY IS REPRESENTATIVE OF THE GENERAL CONDITION OF THE RIVERBED AT THE TIME OF THE SURVEY. THE CONDITION OF THE BOTTOM MAY CHANGE AT ANY TIME AFTER THE DATE OF THIS SURVEY.
 - ALL BATHYMETRIC DATA WAS COLLECTED IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL 5A-1 (16-100) NOVEMBER 2013.

THIS HYDROGRAPHIC SURVEY WAS COMPLETED BY AN AMERICAN CONGRESS ON SURVEYING AND MAPPING CERTIFIED HYDROGRAPHER

JAMES W. GLAESER DATE
AMERICAN CONGRESS ON SURVEYING AND MAPPING
CERTIFIED HYDROGRAPHER #222



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