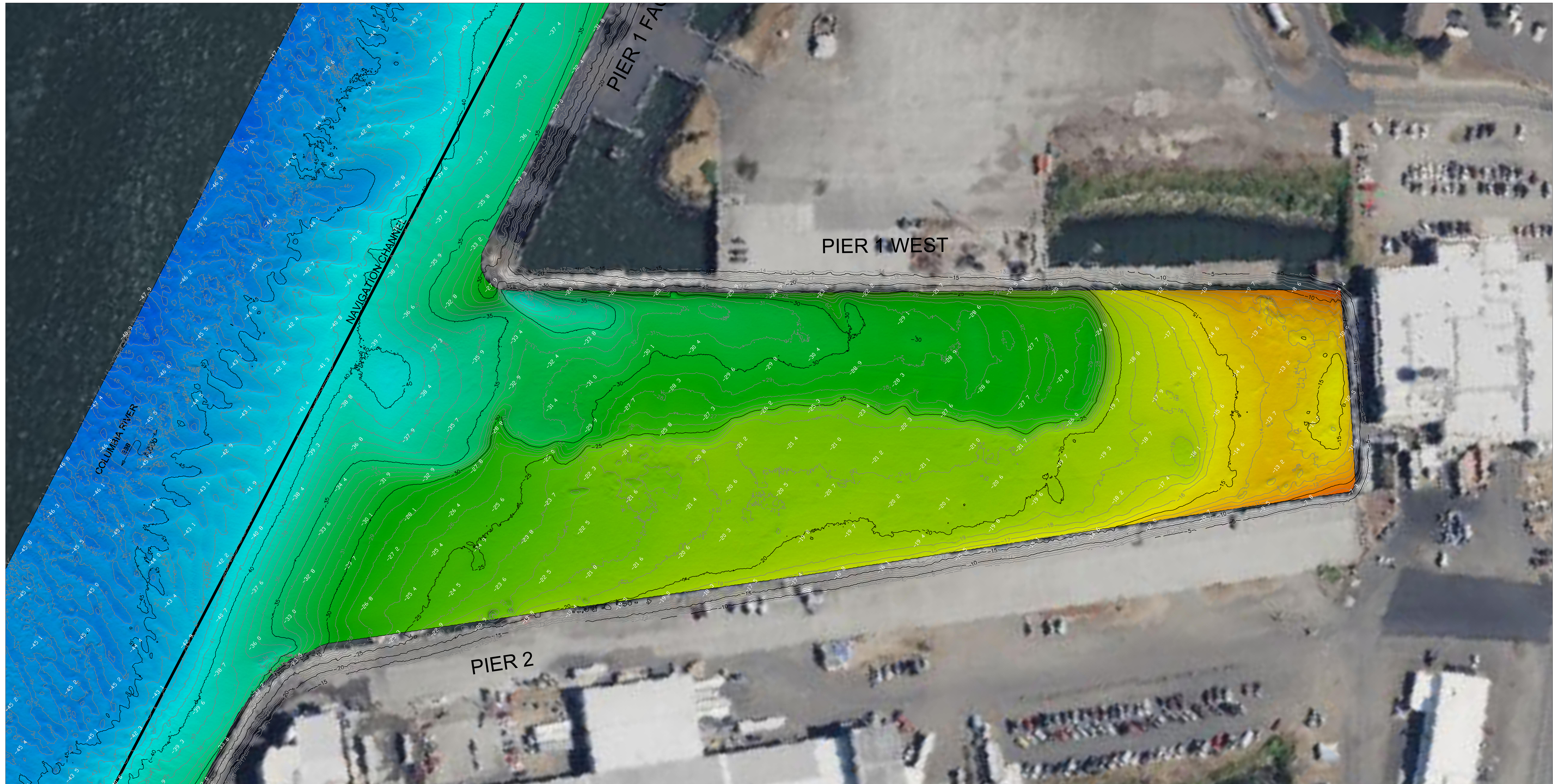


# Port of Astoria

## Central Waterfront Pre-Dredge Bathymetric Survey

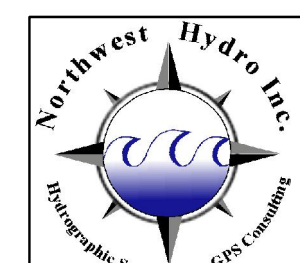
September 24, 2024



- NOTES:**
1. HORIZONTAL DATUM: NAD 83 (2011) STATE PLANE COORDINATES, OREGON NORTH ZONE.
  2. UNITS: U.S. SURVEY FEET.
  3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW). MLLW DETERMINED FROM USACE TIDE BOARD LOCATED ON THE ASTORIA BRIDGE PIER AND USACE MONUMENT #48 (9' GLEN + 5.6' FT).
  4. CONTOUR INTERVAL: 1 FOOT. CONTOURS WERE DEVELOPED FROM A GRIDDED 1 FT X 1 FT DATASET USING AN INVERSED WEIGHTED AVERAGE OF ALL SOUNDINGS.
  5. 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.
  6. SOUNDINGS WERE COLLECTED USING A RESONANT 2022 MULTIBeam SONAR SYSTEM AND DATA PROCESSING WAS COMPLETED USING HYPACK PLUS SWEEP SOFTWARE.
  7. 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.
  8. ALL BATHYMETRIC DATA WAS COLLECTED IN ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL 3A-1 (16-100) NOVEMBER 2015.

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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