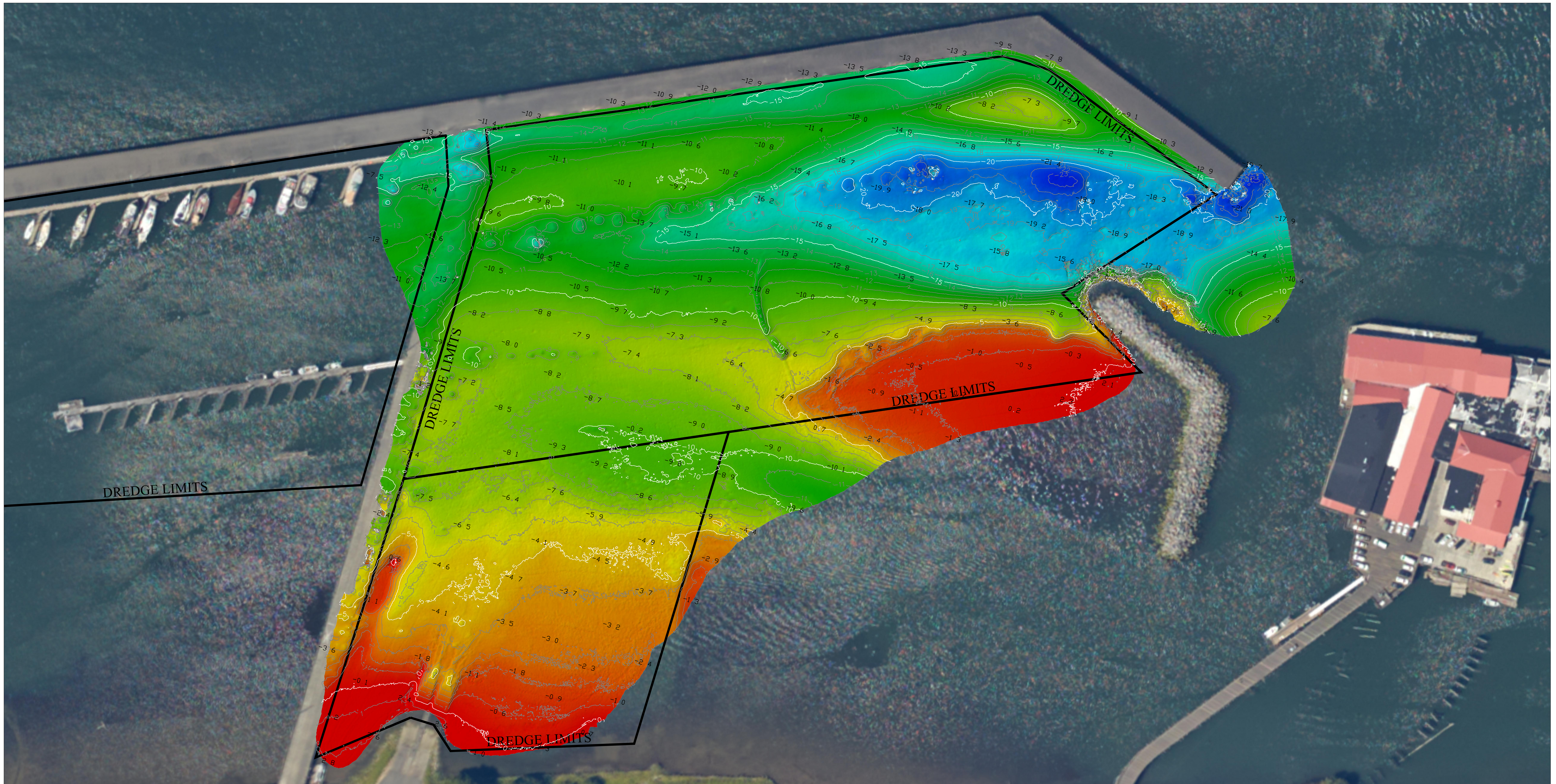


# Port of Astoria

## East Mooring Basin 2024 Pre-Dredge Bathymetric Survey

September 30, 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 WATER LEVELS DETERMINED FROM USACE TIDE BOARD LOCATED WITHIN THE EAST MOORING BASIN (EAST ENTRANCE AREA).
  - 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/MAY 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 HYDRAKITS 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 134 (11/06) 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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