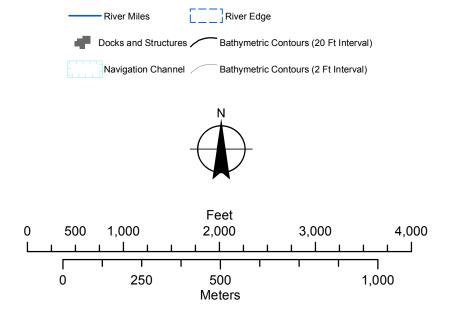
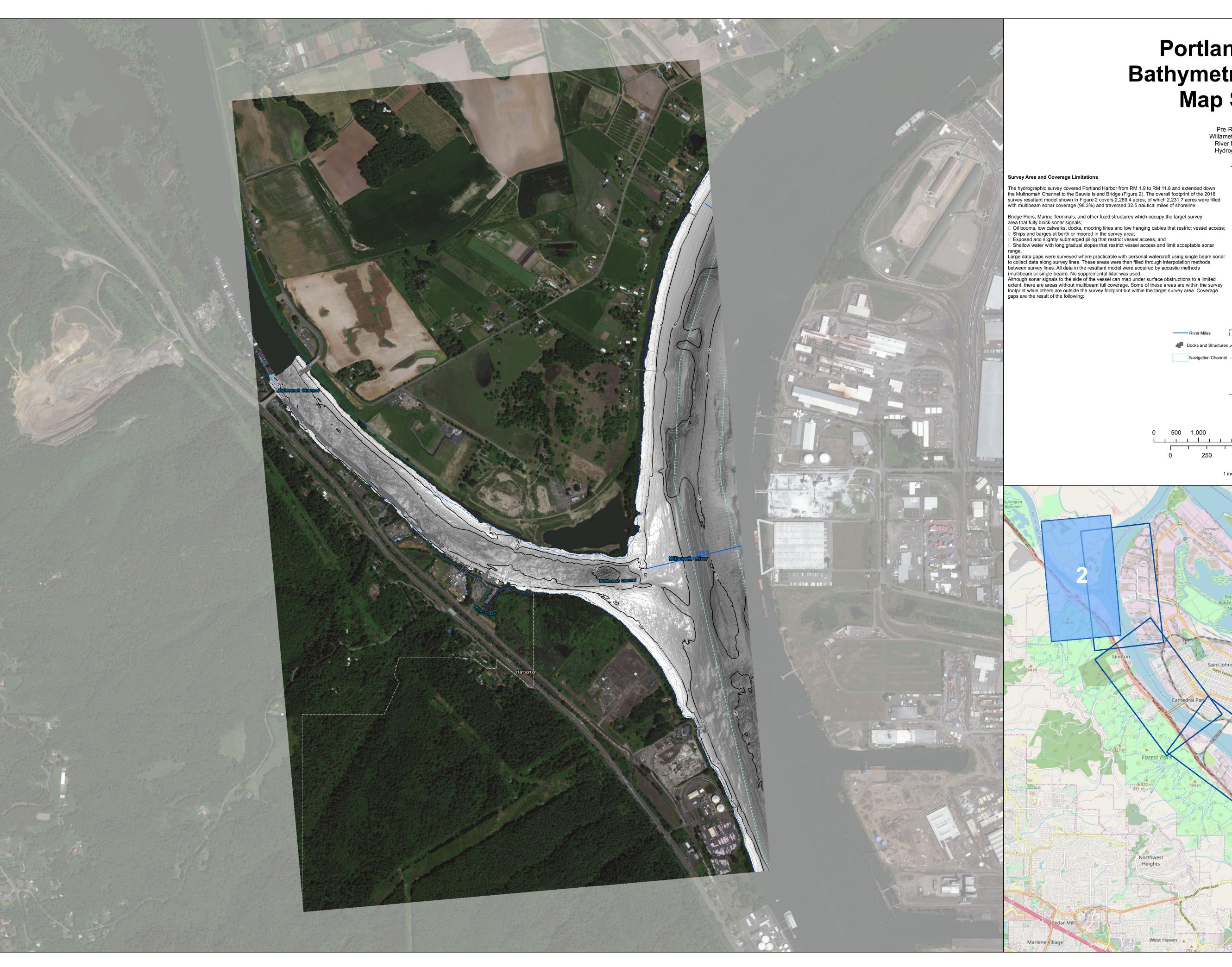


## **Portland Harbor** Bathymetry Data 2018 Map Sheet 1

The **horizontal datum** used for this survey is the North American Datum of 1983, 2011 realization, EPOCH:2010.00 (NAD83 [2011]) projected to the State Plane Coordinate System (SPCS) – Oregon North Zone, with units in International Feet.

The **vertical datum** for this survey is the North American Vertical Datum of 1988 (NAVD88) using the National Geodetic Survey (NGS) separation model Geoid 2012b, which converts NAD83 (2011) ellipsoid heights obtained from Global Navigation Satellite System (GNSS) receivers to NAVD88 orthometric heights.





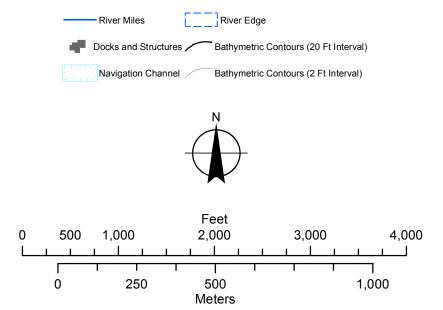
## **Portland Harbor** Bathymetry Data 2018 Map Sheet 2

Pre-RD AOC Group Willamette River, Oregon River Mile 1.9 to 11.8 Hydrographic Survey

July 2018

The **horizontal datum** used for this survey is the North American Datum of 1983, 2011 realization, EPOCH:2010.00 (NAD83 [2011]) projected to the State Plane Coordinate System (SPCS) – Oregon North Zone, with units in International Feet.

The **vertical datum** for this survey is the North American Vertical Datum of 1988 (NAVD88) using the National Geodetic Survey (NGS) separation model Geoid 2012b, which converts NAD83 (2011) ellipsoid heights obtained from Global Navigation Satellite System (GNSS) receivers to NAVD88 orthometric heights.



1 inch = 1,000 feet

