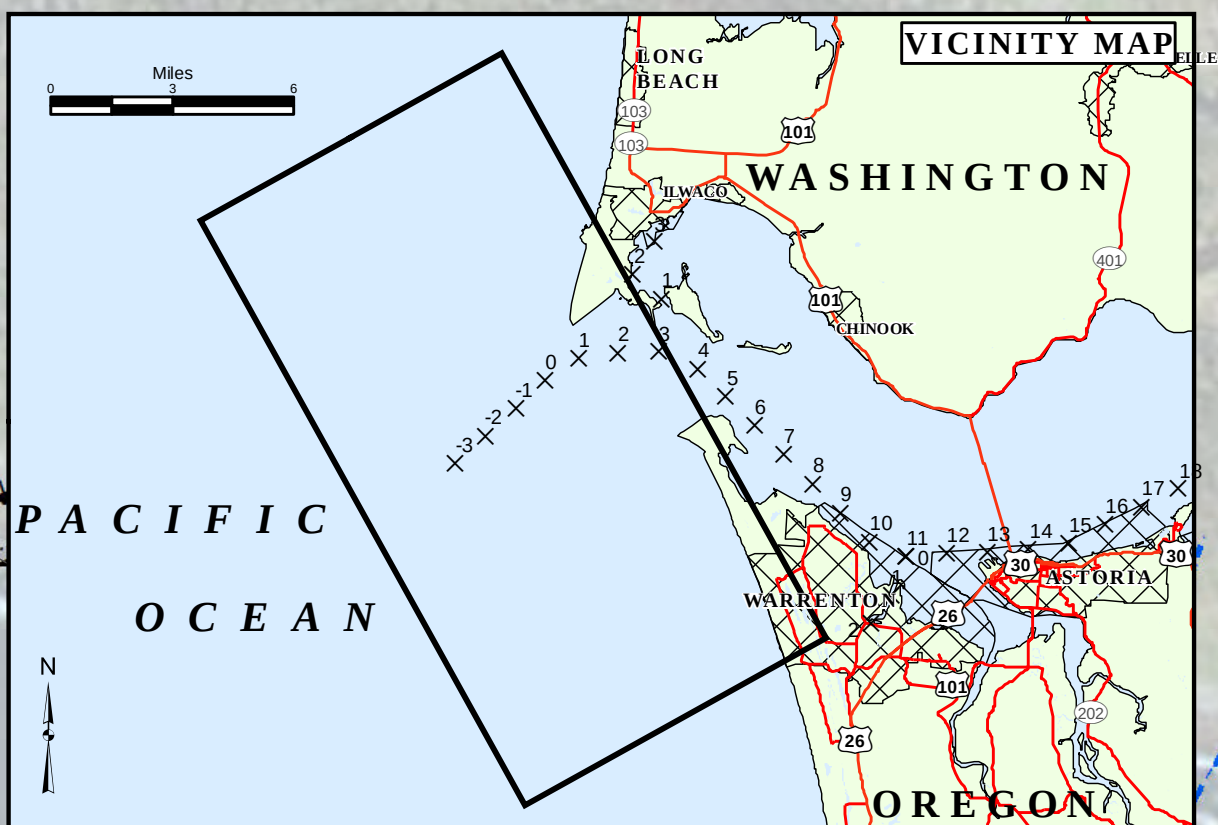
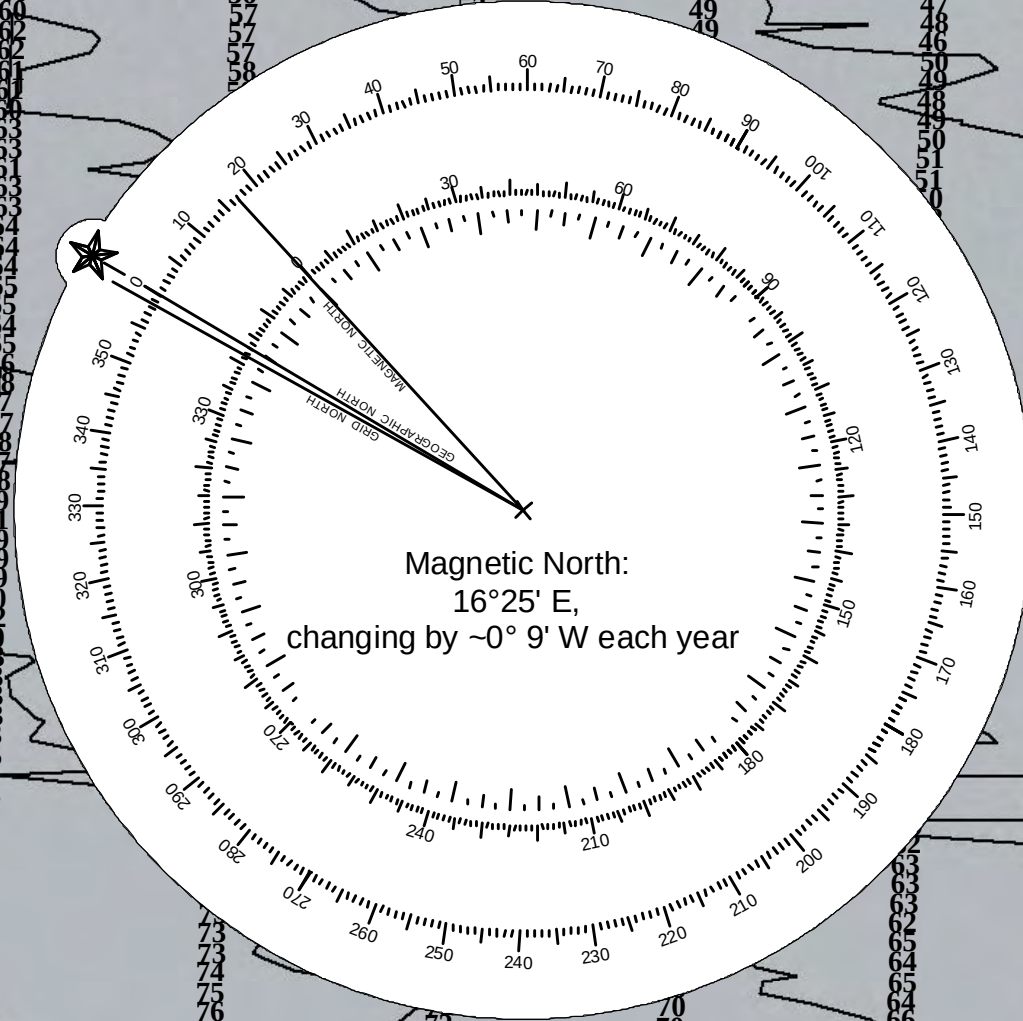
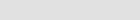
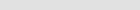
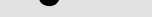




LEGEND			
	Federal Navigation Channel		Benchmark
	Federal Navigation Channel Centerline		Pylon Bridge Support
	Pipeline, Submarine On Land Line		Rock
	Cable, Overhead		Obstruction Point
	Cable, Submarine		Wreck-Submerged
	Pipeline, Overhead		Staff Gage
	Dredged Material Placement Area		Recording Gage
	Cable Area		Beacon, General
	Pipeline Area		Contour Lines
	Shoaling Area		Shoalest Sounding**

2010 Aerial Photography data source: ESRI, USDA, NASA, I-cubed - Reference is Navigation Chart No. 18521

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 0.23 feet below the North American Vertical Datum (NAVD 88 Geoid 09) at Columbia River Mile 2.0.
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 condition existing at that time.
** Shoalest Sounding per Quarter per Reach
STAFF GAGE AT HAMMOND: Northing: 943276 Easting: 7338236
CONDITION ☒ PREDREDGE ☐ POSTREDGE ☐

COLUMBIA AND LOWER WILLAMETTE RIVERS
BELOW VANCOUVER, WASH. AND PORTLAND, OREG.
COLUMBIA RIVER
MCR - APPROACHES
29 May 2014

SCALE IN FEET
0 2,000 4,000 6,000 8,000 10,000

SUBMITTED: _____ APPROVED: _____
RECOMMENDED: _____ CHIEF, WATERWAYS MAINTENANCE SECTION
CHIEF, SURVEY SECTION SURVEYED: _____ PLOTTED: _____ CHECKED: _____
CL_00_MCA_20140529

