

## **C. HORIZONTAL and VERTICAL CONTROL**

### **C.1. Horizontal Control**

The horizontal control datum for this survey was the North American Datum of 1983 (NAD83).

USCG corrections were used to correct the real-time DGPS corrections. This position was reduced to the POSMV IMU (also the reference point) during acquisition. The POS unit output the IMU location to QINSy which in turn packaged the navigation and the MBES data using a PPS signal from the POS as well. The IMU to Reson transducer offsets were corrected by CARIS during post processing and can be found in the HVF delivered digitally.

### **C.2. Vertical Control**

All sounding data were initially reduced to MLLW using predicted tidal data from the Portland Tide Station (ID: 8418150). Predicted tides were used only for preliminary data cleaning.

Final tidal corrections were generated using the verified tides from the Portland Tide station. Tide zoning verification can be found in the OPR-A366-KR-12 DAPR *section C.4*, submitted under a separate cover.