

C. Vertical and Horizontal Control

Field installed tide and GPS stations were not utilized for this survey. There is no HVCR report included with the submission of F00743.

C.1 Vertical Control

The vertical datum for this project is Columbia River.

ERS Methods Used:

ERS via VDATUM

Ellipsoid to Chart Datum Separation File:

NAD83-mllwCRD_Geoid09.csar

Sounding elevations relative to the ellipsoid were collected through Ellipsoidal Referenced Survey (ERS) with post-processing of the daily logged POSpac data to create a statistical best estimate of trajectory (SBET) file, as detailed in the DAPR, All of F00743 meets HSSD vertical accuracy requirements.

C.2 Horizontal Control

The horizontal datum for this project is North American Datum 1983.

The projection used for this project is Projected UTM 10N.

Precise Positioning-Real Time Extended (PP-RTX) processing methods were used in Applanix POSpac MMS 8.3 software to produce SBETs for post-processing horizontal correction. All of F00743 meets HSSD horizontal accuracy requirements.