C. Vertical and Horizontal Control

Per FPM section 5.2.3.2.3 a HVCR report was not filed as horizontal and vertical control stations were not established by the field party for this survey. A summary of horizontal and vertical control for this survey follows. POSPAC Smoothed Best Estimate Trajectory (SBET) files were processed and applied to survey lines to improve the horizontal positioning. Vertical control was established with ERS via VDatum.

C.1 Vertical Control

The vertical datum for this project is Mean Lower Low Water.

ERS Datum Transformation

The following ellipsoid-to-chart vertical datum transformation was used:

Method	Ellipsoid to Chart Datum Separation File
ERS via VDATUM	S-G901_VDatum Limits_100m_NAD83-MLLW_geoid12b

Table 12: ERS method and SEP file

C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD 83).

The projection used for this project is Universal Transverse Mercator (UTM) Zone 17.

The following PPK methods were used for horizontal control:

- RTX

WAAS

The Wide Area Augmentation System (WAAS) was used for real-time horizontal control during data acquisition.