C. Vertical and Horizontal Control

As 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-H940_Limits_100m_NAD83-MLLW_geoid12b

Table 10: 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:

- Smart Base

The following CORS Stations were used for horizontal control:

HVCR Site ID	Base Station ID
CN15	CN15
FLF1	FLF1
MTNT	MTNT
OKCB	OKCB
PBCH	PBCH
ZMA1	ZMA1

Table 11: CORS Base Stations

WAAS

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