

## 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 H13607.

### C.1 Vertical Control

The vertical datum for this project is Low Water Datum IGLD-1985.

#### ERS Datum Transformation

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

<b>Method</b>	<b>Ellipsoid to Chart Datum Separation File</b>
ERS via VDATUM	OPR-W386-TJ-22_NAD83_2011_VDatum_LWD_IGLD85

*Table 11: 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

Trimble PP-RTX service was used with an Applanix POS MV v5 system and POSpac MMS software for ERS control in accordance with the HSSD for H13607 MBES data from vessels 2903 and 2904.

### WAAS

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