## 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:

| Method | Ellipsoid to Chart Datum Separation File |
|---|---|
| ERS via VDATUM | OPR-W386-TJ-22_NAD83_2011_VDatum_LWD_IGLD85 |

*Table 11: ERS method and SEP file*

All soundings submitted for H13616 are reduced to LWD IGLD-85 using VDatum techniques as outlined in the DAPR.

## 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.

RTK

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 H13616 MBES data from S222 and Launches 2903 and 2904.

WAAS

The Wide Area Augmentation System (WAAS) was used for navigation (horizontal control) during data acquisition on S222 and Launches 2903 and 2904.