

C. Vertical and Horizontal Control

Additional information discussing the vertical or horizontal control for this survey can be found in the accompanying 2019 DAPR.

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 ERTDM	OPR-T383- RA-19_ERTDM_NAD83(2011)_MLLW_Extended2 OPR-T383- RA-19_ERTDM_NAD83(2011)_MHW_Extended2.csar

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 4.

The following PPK methods were used for horizontal control:

- Smart Base
- RTX

The following base stations were selected by POSpac MMS 8.3 to produce a SmartBase SBET specifically for multibeam tracklines 0018 and 0019 from 2801 (RA-4) on day 234.