

C. Vertical and Horizontal Control

No Horizontal and Vertical Control Report (HVCR) is required for this survey.

C.1 Vertical Control

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

ERS Methods Used:

ERS via VDATUM

Ellipsoid to Chart Datum Separation File:

VDatum-WGS84_ACHARE_Polygon_ACHARE_Polygon_xyWGS84-MLLW_geoid12b.csar

All soundings submitted for H13143 are reduced to MLLW 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). Survey H13143 data were acquired in the World Geodetic System of 1984 (WGS 84). Processing and product creation were completed in North American Datum of 1983 (NAD 83).

The projection used for this project is UTM 19N.

Trimble-RTX service was used with an Applanix POS MVv5 GNSS-INS system to obtain highly accurate ellipsoidally referenced position data to meet ERS specifications for H13143 MBES data.