

C. VERTICAL AND HORIZONTAL CONTROL

C.1 VERTICAL CONTROL

The vertical datum used for the project was Mean Lower Low Water (MLLW). Data was acquired with respect to the ellipsoid (WGS-84 datum) and transformed to MLLW using a static offset of 29.18 meters. The offset based on VDatum values was applied to entire survey area because all points tested in the survey area had offsets value indistinguishable from 29.18 when error was taken in to account. Vertical control was acquired using RTK GNSS techniques. The base station at the Seacoast Science Center in Odiorne State Park provided the RTK real time corrections for the survey.

C.2 HORIZONTAL CONTROL

The horizontal control was referenced to the WGS84 datum and the final products projections are in UTM19N. Final products were projected into UTM zone 19N. The reference used for the horizontal control and vertical control for post processing is the CORS network. Details are given in the HVCR.

Positions were acquired in the same manner as the vertical control (C.1). The reference for this survey for the corrections is a base station composed of GNSS satellites from the CORS network. For more details, refer to the HVCR.