

## **C. Vertical and Horizontal Control**

Additional information discussing the vertical or horizontal control for this survey can be found in the accompanying HVCR and in Appendix IV of this report.

### **C.1 Vertical Control**

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

Standard Vertical Control Methods Used:

Discrete Zoning

The following National Water Level Observation Network (NWLON) stations served as datum control for this survey:

Station Name	Station ID
Sandy Hook	8531680
Newport	8452660

Table 10: NWLON Tide Stations

File Name	Status
8531680.tid	Verified Observed
8452660.tid	Verified Observed

Table 11: Water Level Files (.tid)

File Name	Status
C331KR2013CORP_Edited.zdf	Final

Table 12: Tide Correctors (.zdf or .tc)

The Zoning files delivered for use by NOS were in need of slight adjustments in areas where the survey area extended past the zones supplied. These adjustments were discussed with the COR and were only on the magnitude of tens of meters. All adjusted areas were QC'd for tidal discrepancies and no adverse effects were found.

*See attached Validation of Zoning Note dated July 16, 2014*

## C.2 Horizontal Control

The horizontal datum for this project is North American Datum of 1983 (NAD83) . Data were acquired in WGS84, as shown in the HVF, but were converted to NAD83 for processing and delivery. See DAPR A.3 and B.1 .

The projection used for this project is NAD83 .

The following DGPS Stations were used for horizontal control:

<b>DGPS Stations</b>
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Moriches, Broadcast Site ID: 803
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*Table 13: USCG DGPS Stations*