C. Vertical and Horizontal Control

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

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 VDATUM	buff_xyNAD83-MLLW_geoid12b.csar

Table 11: 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 14.

The following PPK methods were used for horizontal control:

- Smart Base

The primary CORS stations used for Project OPR-379-KR-19 are listed in Table 12. Additional stations used on 8 or fewer survey days include TXFE, DEV1, TXBC, TXED, LCSM, TXKC, ANG5, COH2, TXAG, and TXBV. See the HVCR for details.

The following CORS Stations were used for horizontal control:

HVCR Site ID	Base Station ID
Corpus Christi R2	TXCC
Port Lavaca	TXPV
Beeville	TXBE
KingsvilleTX2006	KVTX
Laguna Vista	TXLN
Clute Coop	DWI1
Alice	TXAI
Victoria	TXVA
Raymondville	TXRV

Table 12: CORS Base Stations

The following user installed stations were used for horizontal control:

HVCR Site ID	Base Station ID
OSI Port Aransas	OSPA

Table 13: User Installed Base Stations