

# 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 Methods Used:

ERS via VDATUM

### Ellipsoid to Chart Datum Separation File:

S-K933\_Limits\_xyNAD83-MLLW\_geoid12b.csar

## C.2 Horizontal Control

The horizontal datum for this project is North American Datum 1983.

The projection used for this project is UTM 18N.

### The following PPK methods were used for horizontal control:

Single Base

Only one CORS station exists within 40km of the survey area precipitating the decision to use a single base solution. Positional accuracy was calculated in POSPAC MMS 8.3.1 on the order of 0.10 meters.

The following CORS Stations were used for horizontal control:

<b>HVCR Site ID</b>	<b>Base Station ID</b>
NCBE	NCBE

*Table 10: CORS Base Stations*

## **C.3 Additional Horizontal or Vertical Control Issues**

### **C.3.1 Additional Positional Control Issues**

An overhead bridge existed in the survey area and data under and around the bridge displayed some positional degradation. Large spikes were cleaned out of the data using SBET QC tools by interpolating data around the spikes.