

## C. Vertical and Horizontal Control

Field installed tide and GPS stations were not utilized for this survey. No HVCR report is included with the submission of F00805 Per Section 5.2.2.1.3 of the 2014 Field Procedures Manual.

### C.1 Vertical Control

The vertical datum for this project is Lake Washington Low Water Datum.

#### ERS Datum Transformation

The following ellipsoid-to-chart vertical datum transformation was used:

Method	Ellipsoid to Chart Datum Separation File
ERS via Constant Separation Model	S-N918-NRT3-20_NAD83(2011)- LWL_xGeoid18B_20March2020

*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 10.

The following PPK methods were used for horizontal control:

- Smart Base

Precise Positioning-Real Time Extended (PP-RTX) processing methods were used in Applanix POSpac MMS 8.4 software to produce SBETs for post-processing horizontal correction. All of F00805 meets HSSD horizontal accuracy requirements.