

C. VERTICAL AND HORIZONTAL CONTROL

Project OPR-P183-RA-06 did not require either static GPS observations or horizontal control work, and all tide corrections were generated from CO-OPS maintained tide stations. No Horizontal and Vertical Control Report will be submitted.

Horizontal Control

The horizontal datum for this project is the North American Datum of 1983 (NAD83). Differential GPS (DGPS) was the sole method of positioning. The differential corrector beacon utilized for this survey is given in Table 3.

Location	Frequency	Operator	Distance	Priority
Cold Bay	289 kHz	USCG	90 NM	Primary

Table 3. Differential Corrector Source for H11596.

Vertical Control

The vertical datum for this project is Mean Lower-Low Water (MLLW). The operating National Water Level Observation Network (NWLON) primary tide station at Sand Point, AK (945-9450) served as control for datum determination and as the primary source for water level reducers for survey H11595.

No tertiary gauges were required. No apparent tidal-based errors in zoning were found by the hydrographer.

All data were reduced to MLLW using **Final Approved Water Levels** from station Sand Point, AK (945-9450) using the tide file P183RA2006CORP.zdf.

The request for Final Approved Water Levels for H11596 was submitted to CO-OPS on September 3, 2006 and the Final Tide Note was received on September 26, 2006. Verified Tide zoning (P183RA2006CORP.zdf) was accepted as the Final Zoning. This documentation is included in Appendix III.¹²