

G. Vertical and Horizontal Control

The vertical datum for this project is Ellipsoidally Referenced Survey.

The vertical control method used for this survey was VDatum.

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

Station Name	Station ID
Ludington, MI	908023
Kewaunee, WI	9087068

Tidal data acquisition, data processing, tidal datum computation and final tidal zoning were performed utilizing sound engineering and oceanographic practices as specified in National Ocean Service (NOS) Hydrographic Surveys Specifications and Deliverables (HSSD), dated March 2016, and OCS Field Procedures Manual (FPM), dated April, 2014. The Center for Operational Oceanographic Products and Services (CO-OPS) provided valid polygon nodes and water level corrections referencing Ludington, MI (9087023) in CARIS .ZDF format. CO-OPS provided the tide file "Storm0517CORP.zdf" for preliminary tide file, which was used in the final survey. The National Geodetic Surveys (NGS) GEOID03 model is used to transform the vertical positions from ellipsoid to orthometric heights referenced to the North American Vertical Datum of 1988 (NAVD88).

The horizontal datum for this project is World Geodetic System (WGS) 1984. The projection used for this survey is Projected UTM 16N.

The following DGPS Stations were used for horizontal control:

DGPS Stations
None

None

H. Additional Results