

C. VERTICAL AND HORIZONTAL CONTROL

VERTICAL CONTROL

The tidal datum for this project is Mean Lower Low Water (MLLW). The operating National Water Level Observation Network (NWLON) station at The Battery, NY (851-8750) and Sandy Hook, NJ (853-1680) and the Physical Oceanographic Real Time System (PORTS) station at Bergen Point, NY (851-9483) served as datum control for the survey. However, for H11400, Sandy Hook, NJ was the only tide station used for preliminary tides because of its proximity to the area surveyed

The preliminary zones and correctors used for this survey are as follows:

Table 1: Preliminary Tide Zones & Correctors

Zone	Time	Range	Predicted
NY3	+6	1.00	853-1680
NY9	+6	1.07	853-1680
NY10	+12	1.10	853-1680
NY11	+18	1.13	853-1680
NY13	+12	1.10	853-1680
NY14	-6	1.05	851-9483
NY14A	0	1.03	851-9483
NY15	0	1.01	851-9483
NY15A	+12	1.02	851-9483
NY15B	+18	1.06	851-9483
NY15D	+24	1.05	851-9483
NY16	0	0.98	851-9483
NY17	-6	0.94	851-9483
NY18	-18	1.03	851-8750
NY19	-12	1.03	851-8750
NY20	-6	1.04	851-8750
NY21	0	1.00	851-8750
NY22	+12	0.98	851-8750
HR1	+12	0.98	851-8750
HR2	+24	0.95	851-8750

A Request for Approved Tides letter was sent to N/OPS1 on ~~September 6, 2006~~ *see Evaluation Report* (Appendix IV). Verified water levels from the N/OPS1 CO-OPS website were downloaded periodically throughout the survey, and applied to all sounding data. Refer to the DAPR for a summary of the methods used to determine, evaluate, and apply tide corrections to sounding data.