

C. VERTICAL AND HORIZONTAL CONTROL

C.1 VERTICAL CONTROL

The tidal datum for this project is Mean Lower Low Water (MLLW). The operating National Water Level Observation Network (NWLON) stations at Washington, DC (859-4900) and Lewisetta, MD (863-5750) served as datum control for the survey.

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

ZONE NAME	CORRECTOR (min)	RATIO	REFERENCE
POTR16	+60	X1.49	863-5750
POTR19	+72	X1.33	863-5750
POTR20	+90	X1.25	863-5750
POTR22	+108	X1.21	863-5750
POTR26	+156	X1.09	863-5750
POTR28	+174	X1.05	863-5750
POTR29	+186	X1.01	863-5750
POTR30	+198	X1.01	863-5750
POTR31	+210	X1.01	863-5750
POTR32	+222	X0.97	863-5750
POTR33	+234	X0.93	863-5750
POTR34	+246	X0.89	863-5750
POTR35	+258	X0.85	863-5750
POTR36	+270	X0.85	863-5750
POTR39	+288	X0.89	863-5750
POTR40	+300	X0.97	863-5750
POTR41	+312	X1.05	863-5750
POTR43	+324	X1.13	863-5750
POTR45	+336	X1.25	863-5750
POTR47	+354	X1.37	863-5750
POTR53	-30	X0.82	859-4900
POTR56	-12	X0.95	859-4900
POTR57	-6	X0.99	859-4900

Table 4 Preliminary Tide Zones & Correctors

A request for **TCARI Approved Smooth Tides** letter was sent to N/OPS1 on 27 August, 2007 (Appendix IV). During subsequent communications with CO-OPS, the lack of historical tide data near Smith Point (38.41595811N, -077.26567435W) adversely affected the TCARI model. As a result of the modeling complexities of the corresponding survey area, a finalized discrete zoning file was sent in its place and applied to all survey data.

Refer to the ***DAPR** for a summary of the methods used to determine, evaluate, and apply tide corrections to sounding data. **Concur**

***Submitted with H-Cell deliverables.**