



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
National Ocean Service  
Silver Spring, Maryland 20910

**TIDE NOTE FOR HYDROGRAPHIC SURVEY**

**DATE :** November 18, 2013

**HYDROGRAPHIC BRANCH:** Pacific  
**HYDROGRAPHIC PROJECT:** OPR-P183-RA-13  
**HYDROGRAPHIC SHEET:** H12590

**LOCALITY:** 5NM South of Turner Island, Shumagin Islands, AK  
**TIME PERIOD:** July 16, 2013 - September 2, 2013

**TIDE STATION USED:** 945-9450 Sand Point, AK  
Lat. 55° 19.9'N Long. 160° 30.3' W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.988 meters

**TIDE STATION USED:** 945-9251 Bird Island, AK  
Lat. 54° 50.1' N Long. 159° 45.6' W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.928 meters

**REMARKS: RECOMMENDED ZONING**  
**Use zone(s) identified as:** SWA204A, SWA205

**Refer to attachments for zoning information.**

**Note 1:** Provided time series data are tabulated in metric units (meters), relative to MLLW and on Greenwich Mean Time on the 1983-2001 National Tidal Datum Epoch (NTDE).

**Note 2:** Use tide data from the appropriate station with applicable zoning correctors for each zone according to the order in which they are listed in the Tidezone corrector file (\*.ZDF). For example, tide station one (TS1) would be the first choice for an applicable zone followed by TS2, etc. when data are not available.

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CHIEF, PRODUCTS AND SERVICES BRANCH

