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Geoscience Australia

Geodetic Connections to Tide Gauge at Rosslyn Bay

RESULTS OF OPTICAL LEVELLING

Bench Mark Name	PSM 45274	PSM 82477	PSM 63878	SSBM	PSM 47784
Mark description	Deep Driven Mark	Deep Driven Mark	Stainless steel pin in rock	Seaframe sensor BM	Mark in conc kerb
AHD Ht (m) May 1994	11.268	8.14	5.937	5.807	4.253
AHD Ht (m) Nov 1995	-	8.14	5.937	5.808	4.252
AHD Ht (m) Aug 1998	-	8.14	5.938	5.804	4.253
AHD Ht (m) Dec 2001	-	8.14	5.9374	5.8079	4.2516
AHD Ht (m) Jul 2011	-	8.14	5.9337	5.7912	4.2482
Comments	Datum for AHD heights	Coastal array Primary BM	Coastal array BM	Tide Gauge Mark	Coastal array BM

Notes:

1. The vertical offset from the Seaframe Sensor Bench Mark up to the Seaframe Sensor Reference Point is approximately 2cm.
2. The following information is recorded annually by NTF:
   - Aquatrak head number
   - Calibration tube number
   - Sensor offset
   - Seaframe Sensor Reference Point vertical offset from Seaframe Sensor Bench Mark
   - Dates of Service
3. On 26 August 2009 the SEAFRAME sensor was rotated 90 degrees to the right hand side of its supporting pile (i.e. repositioned) to allow for the installation of a safe work platform. A large contribution of the 16.7 mm height change of the SSBM between the December 2001 and July 2011 surveys is likely a result of this repositioning.

GEOSCIENCE AUSTRALIA
Cnr Jerrabomberra Ave & Hindmarsh Dve
GPO Box 378, SYMONSTON, ACT, 2609 Australia
Phone: 61 2 6249 9111
Web Site http://www.ga.gov.au