



Australian Government

Geoscience Australia

Geodetic Connections to Tide Gauge at Stanvac

RESULTS OF OPTICAL LEVELLING

Bench Mark Name	6627/15929	6527/8020	6527/8019	6527/8018	6527/8115	6527/8432	6527/8394	6527/9575	6527/9576	6527/9577	6527/9578	6527/9579
AHD Ht (m) Jun-90	2.5582	1.679	1.43	1.518	48.645	-	-					
AHD Ht (m) Jul-91	-	-	-	1.518	48.644	-	-					
AHD Ht (m) Jul-92	-	1.679	1.43	1.518	-	-	-					
AHD Ht (m) Jun-93	-	1.679	1.43	1.518	-	-	-					
AHD Ht (m) Jul-94	-	1.679	1.43	-	-	-	6.297					
AHD Ht (m) Sep-95	-	1.679	-	-	48.644	49.45	-					
AHD Ht (m) Jan-96	-	1.6791	1.4299	-	-	-	6.2986					
AHD Ht (m) Feb-98	-	1.6791	1.4298	1.5176	-	-	6.2972					
AHD Ht (m) Oct-01	-	1.6791	1.4298	1.5175	48.6447	49.4507	6.2979					
AHD Ht (m) Jul-04	-	1.6791	1.4299	1.5174	48.6451	49.4509	6.2956					
AHD Ht (m) Nov-10#		1.679	1.43	1.5167	48.642	49.4477	6.3053	58.4922	57.3265	57.3443	56.4267	53.6573
Comments	Datum for AHD heights.	Coastal array primary DBM.	Coastal array DBM.	Coastal array DBM.	GPS point for Coastal array.	GPS Pillar Plate	Seaframe sensor BM.	PTSV – GNSS ARP	PTSVBM – GNSS Pillar BM	RM1	RM2	RM3

Total Station Differential Leveling technique used with TCA2003. The apparent 9.7mm rise in 6527/8394 - the SEAFRAME Sensor BM between Jul 2004 and Nov 2010 may reflect a real rise over the 6 years between leveling. However it can't be checked as the wharf is now closed while the Oil Refinery is being decommissioned and the Seaframe gauge has been removed.