

Appendix C

Borehole database search (DPI (Water))

Appendix C DPI (Water) groundwater borehole search

Table C1 Results of NOW Borehole Search

Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW017443	6.10	Not Available	Water Supply - Domestic	0.00	6.09	Sand	-33.967	151.1478	Southern Alignment - South of President Avenue, East of Princes Highway
GW023191	3.70	1.20'	Water Supply - Domestic	0.00	3.65	Sand water supply	-33.9439	151.1501	Southern Alignment - North of Bay St, East of Princes Highway
GW023194	4.90	3.30	Water Supply - Domestic	0.00	0.91	Sand	-33.9413	151.1514	Southern Alignment - North of Bay St, East of Princes Highway
				0.91	4.87	Sand white water supply			
GW023288	5.20	2.40	Water Supply - Domestic	0.00	2.43	Sand black	-33.9681	151.1412	Southern Alignment - South of President Avenue, East of Princes Highway
				2.43	5.18	Sand clean water supply			
GW023289	0.00	1.80	Water Supply - Domestic	-	-	Not Available	-33.9751	151.1437	Southern Alignment - South of President Avenue, East of Princes Highway
GW023354	3.70	1.30	Water Supply - Domestic	0.00	3.65	Sand water supply	-33.9709	151.1373	Southern Alignment - South of President Avenue, East of Princes Highway
GW023428	0.00	3.60'	Water Supply - Domestic	-	-	Not Available	-33.9679	151.1478	Southern Alignment - South of President Avenue, East of Princes Highway
GW023439	5.20	3.90	Water Supply - Domestic	0.00	0.91	Sand grey	-33.9671	151.1426	Southern Alignment - South of President Avenue, East of Princes Highway
				0.91	5.18	Sand white water supply			
GW023451	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9556	151.149	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW023477	6.40	4.50	Water Supply - Domestic	0.00	1.82	Sand grey	-33.957	151.1492	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				1.82	6.40	Sand white water supply			
GW023495	5.50	1.50	Water Supply - Domestic	0.00	5.48	Sand water supply	-33.9715	151.1387	Southern Alignment - South of President Avenue, East of Princes Highway
GW023651	4.40	2.70'	Water Supply - Domestic	0.00	4.41	Sand water supply	-33.9648	151.1481	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW023985	5.80	3.30-5.70'	Water Supply - Domestic	0.00	0.91	Soil	-33.9682	151.1399	Southern Alignment - South of President Avenue, East of Princes Highway
				0.91	3.04	Sand dry			
				3.04	3.35	Sand wet			
				3.35	5.79	Sand white water supply			
GW024062	3.70	1.50	Water Supply - Domestic	0.00	1.82	Clay wet nominal heavy nominal	-33.9451	151.1462	Southern Alignment - North of Bay St, East of Princes Highway
				0.00	1.82	Sand wet nominal			
				1.82	3.65	Clay very sandy water supply			
GW024109	2.10	2.10	Water Supply - Domestic	0.00	2.13	Sand water supply	-33.9348	151.1545	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW024371	4.30	3.00	Water Supply - Domestic	0.00	1.21	Topsoil black	-33.9793	151.1453	Southern Alignment - South of President Avenue, East of Princes Highway
				1.21	2.43	Sand grey			
				2.43	4.26	Sand light grey water supply			
GW024375	3.70	1.80	Water Supply - Domestic	0.00	1.82	Soil black	-33.9801	151.1434	Southern Alignment - South of President Avenue, East of Princes Highway
				1.82	3.65	Mud black water supply			
GW024615	5.50	3.60-5.40'	Water Supply - Domestic	0.00	5.48	Sand water supply	-33.9694	151.1363	Southern Alignment - South of President Avenue, East of Princes Highway
GW024673	4.30	Not Available	Water Supply - Domestic	0.00	4.26	Soil nominal water supply	-33.9356	151.0875	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.00	4.26	Sand nominal			
GW024674	0.00	6.00	Water Supply - Domestic	-	-	Not Available	-33.9694	151.146	Southern Alignment - South of President Avenue, East of Princes Highway
GW024675	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9756	151.1465	Southern Alignment - South of President Avenue, East of Princes Highway
GW025539	4.60	3.30	Water Supply - Domestic	0.00	0.60	Sand	-33.9733	151.1465	Southern Alignment - South of President Avenue, East of Princes Highway
				0.60	4.57	Sand white water supply			
GW025551	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9697	151.1417	Southern Alignment - South of President Avenue, East of Princes Highway
GW025703	6.10	Not Available	Water Supply - Domestic	0.00	4.57	Driller	-33.9786	151.144	Southern Alignment - South of President Avenue, East of Princes Highway
				4.57	6.09	Sand			
GW025719	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9658	151.1481	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW026323	3.70	3.20	Water Supply - Domestic	0.00	3.65	Sand white water supply	-33.9635	151.1424	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW026647	10.40	2.70	Water Supply - Domestic	0.00	0.86	Sandstone sand	-33.9618	151.1442	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.86	1.92	Sand silt			
				1.92	5.02	Sand white slightly silty water supply			
				5.02	10.36	Clay			
GW026648	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9607	151.1445	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway

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Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW026651	3.70	2.10	Water Supply - Domestic	0.00	0.91	Made ground	-33.961	151.1446	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.91	2.13	Sand black			
				2.13	3.65	Mud black water supply			
GW027055	9.10	3.00-9.00'	Water Supply - Domestic	0.00	0.60	Soil	-33.9659	151.1487	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.60	9.14	Sand water supply			
GW027569	8.24	3.66	Water Supply - Domestic	0.00	8.24	Unconsolidated all sands	-33.9619	151.1484	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW027570	15.20	Not Available	Irrigation	0.00	0.30	Topsoil sandy	-33.9638	151.1487	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	3.50	Sand white moist			
				3.50	5.33	Sand light brown wet			
				5.33	6.85	Peat black moist sandy			
				6.85	10.66	Peat interlayere			
				6.85	10.66	Sand white wet fine			
				10.66	12.80	Sand black moist peaty			
				12.80	15.24	Clay seams			
				12.80	15.24	Sand white wet coarse			
GW027664	6.10	0.70	Irrigation	0.00	0.30	Loam sand	-33.9359	151.1556	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
				0.30	2.43	Sand clean			
				2.43	2.74	Peat wood bands			
				2.74	3.04	Sand			
				3.04	6.09	Sand white water supply			
				6.09	6.11	Rock			
GW040219	0.00	Not Available	Commercial and Industria	-	-	Not Available	-33.9209	151.184	King Georges Rd to Alexandria - South East of Princes Highway
GW064827	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9559	151.15	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW072161	90.50	14.00	Other	0.00	16.00	Sandy, marine clays	-33.9358	151.1567	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
				16.00	18.00	Sandstone (weathered)			
				18.00	20.50	Sandy clay band			
				20.50	28.50	Sandstone, silt bands			
				28.50	31.00	White sandstone			
				31.00	32.50	Medium / large sandstone			
				32.50	35.50	Sandstone, clay bands			
				35.50	68.00	Fine / medium white sandstone			
				68.00	71.00	Shale bands			
				71.00	72.00	Medium / large bands clay sandston			
				72.00	89.00	White sandstone			
GW072643	12.00	Not Available	Unknown	89.00	90.50	Shale bands & grey sandstone	-33.9168	151.1822	King Georges Rd to Alexandria - South East of Princes Highway
				0.00	2.00	Fill			
				2.00	6.50	Medium sandy gravel			
				6.50	7.20	Grey silty clay wb			
				7.20	8.50	Medium sand wb			
				8.50	10.00	Brown silty sand wb			
GW073139	8.00	Not Available	Water Supply - Domestic	10.00	12.00	Grey shale clay	-33.9652	151.1478	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.00	0.20	Soil			
				0.20	8.00	Sand			
				0.00	0.50	Clay; red brown; dry fill material			
				0.50	1.00	Sander dust			
				1.00	1.50	Clay; with incorporated sander dust			
				1.50	2.00	Clay; red dry			

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GW075059	17.50	Not Available	Monitoring	2.00	2.80	Clay	-33.973	151.1414	Southern Alignment - South of President Avenue, East of Princes Highway
				2.80	3.20	Clay; layer of grey black material			
				3.20	4.00	Clay; red brown dry			
				4.00	17.50	Shale; moist light brown layer with m			
GW075063	3.40	Not Available	Monitoring	0.00	0.50	Fill; dark brown clay and brick fill	-33.9832	151.1424	Southern Alignment - South of President Avenue, East of Princes Highway
				0.50	1.50	Clayey sand; grey and moist			
				1.50	3.00	Sandy clay; grey soft to hard weather			
				3.00	3.50	Bedrock; sandstone			
GW100053	7.00	1.00	Other	0.00	0.95	Fill	-33.9143	151.1845	King Georges Rd to Alexandria - South East of Princes Highway
				0.95	2.12	Brown peat & sand			
				2.12	6.00	Whitesand (wb)			
				6.00	7.00	Dark grey clay			
GW100209	108.00	6.00-68.00'102.4	Water Supply - Domestic	0.00	31.00	Fine white sandtone	-33.9375	151.16	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
				31.00	38.00	Grey shale			
				38.00	45.00	Grey shale & coarse grey sandstone			
				45.00	73.00	Coarse grey sandstone			
				73.00	82.00	Coarse grey sandstone & grey shale			
				82.00	93.00	Fine grey sandstone			
				93.00	102.00	Med grain sandstone			
				102.00	104.00	Coarse grey sandstone			
				104.00	108.00	Fine grey sandstone			
GW100564	10.00	Not Available	Water Supply - Domestic	0.00	10.00	Sand	-33.9733	151.1471	Southern Alignment - South of President Avenue, East of Princes Highway
GW100664	5.80	2.29	Water Supply - Domestic	0.00	5.80	Unconsolidated all sand	-33.9769	151.1456	Southern Alignment - South of President Avenue, East of Princes Highway
GW100679	4.58	1.67	Water Supply - Domestic	0.00	4.58	Unconsolidated all sand with small s	-33.9738	151.1464	Southern Alignment - South of President Avenue, East of Princes Highway
GW101025	5.00	Not Available	Water Supply - Domestic	0.00	5.00	Sand	-33.9754	151.1454	Southern Alignment - South of President Avenue, East of Princes Highway
GW101056	6.00	Not Available	Other	0.00	6.00	Sand	-33.9729	151.1423	Southern Alignment - South of President Avenue, East of Princes Highway
GW101329	4.57	1.52	Water Supply - Domestic	0.00	4.57	Unconsolidated - all sand.	-33.9724	151.1399	Southern Alignment - South of President Avenue, East of Princes Highway
GW101761	5.50	Not Available	Water Supply - Domestic	0.00	5.50	Sand	-33.9842	151.1446	Southern Alignment - South of President Avenue, East of Princes Highway
GW101763	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.981	151.143	Southern Alignment - South of President Avenue, East of Princes Highway
GW101871	5.80	1.83	Water Supply - Domestic	0.00	5.80	Unconsolidated sand with small sea	-33.9755	151.1469	Southern Alignment - South of President Avenue, East of Princes Highway
GW102580	40.00	1.70	Monitoring	0.00	18.50	Clay	-33.929	151.1412	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				18.50	19.50	White sandstone m.g.weathered			
				19.50	25.00	White sandy clay			
				25.00	40.00	White sandstone			
GW103229	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9773	151.1465	Southern Alignment - South of President Avenue, East of Princes Highway
GW103331	3.20	Not Available	Monitoring	0.00	0.70	Silty sand	-33.9294	151.1442	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.70	2.70	Sand			
				2.70	3.20	Sandy clay			
GW103332	3.20	Not Available	Monitoring	0.00	0.70	Silty sand	-33.9294	151.1442	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.70	2.70	Sand			
				2.70	3.20	Sandy clay			
GW103333	3.20	Not Available	Monitoring	0.00	0.70	Silty sand	-33.9294	151.1442	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.70	2.70	Sand			
				2.70	3.20	Sandy clay			
GW104448	0.00	Not Available	Monitoring	-	-	Not Available	-33.9226	151.1795	King Georges Rd to Alexandria - South East of Princes Highway
GW104449	0.00	Not Available	Monitoring	-	-	Not Available	-33.9224	151.1791	King Georges Rd to Alexandria - South East of Princes Highway

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GW104450	0.00	Not Available	Monitoring	-	-	Not Available	-33.9229	151.1786	King Georges Rd to Alexandria - South East of Princes Highway
GW104637	7.32	4.22	Water Supply - Domestic	0.00	7.32	Unconsolidated all sands	-33.9795	151.1451	Southern Alignment - South of President Avenue, East of Princes Highway
GW105120	3.66	1.67	Water Supply - Domestic	0.00	3.66	Unconsolidated all sands, sandstone	-33.9677	151.1422	Southern Alignment - South of President Avenue, East of Princes Highway
GW105133	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9871	151.1436	Southern Alignment - South of President Avenue, East of Princes Highway
GW105153	5.49	Not Available	Water Supply - Domestic	0.00	5.49	Unconsolidated all sands	-33.9569	151.1459	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW105158	4.58	1.83	Water Supply - Domestic	0.00	4.58	Unconsolidated all sands	-33.9582	151.1466	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.00	0.30	Topsoil			
GW105249	4.00	2.00	Water Supply - Domestic				-33.9877	151.1401	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.30	Sand lt brown			
				3.30	4.00	Sand grey			
GW105250	4.00	2.00	Water Supply - Domestic	0.00	0.20	Topsoil	-33.9878	151.14	Southern Alignment - South of President Avenue, East of Princes Highway
				0.20	3.20	Lt brown sand			
				3.20	3.80	Grey sand			
				3.80	4.00	Sand with brown clay			
GW105289	6.50	3.00	Other	0.00	0.20	Topsoil	-33.9614	151.1424	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.20	3.60	Grey sand			
				3.60	5.80	Light brown sand			
				5.80	6.50	Grey clay			
GW105310	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9797	151.1442	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.00	White sand			
				3.00	4.00	Brown sand			
GW105460	4.50	1.50	Water Supply - Domestic	0.00	2.00	Sand,dark, brown, silty	-33.974	151.1437	Southern Alignment - South of President Avenue, East of Princes Highway
				2.00	4.00	Sand grey			
				4.00	4.50	Mud brown			
GW105472	7.00	4.00	Water Supply - Domestic	0.00	7.00	Sand	-33.967	151.1483	Southern Alignment - South of President Avenue, East of Princes Highway
GW105517	3.97	1.22	Water Supply - Domestic	0.00	3.97	Unconsolidated all sands	-33.9561	151.1502	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW105580	3.50	1.40	Monitoring	0.00	1.20	Fill:gravelly sandy clay	-33.9291	151.1479	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				1.20	2.00	Sandy clay			
				2.00	3.00	Sandy clay			
				3.00	3.50	Sandy clay			
GW105581	3.75	1.40	Monitoring	0.00	0.45	Fill: gravelly sandy clay	-33.929	151.1477	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.45	0.80	Fill:clayey sand			
				0.80	1.50	Sandy clay			
				1.50	2.75	Sandy clay			
				2.75	3.75	Sandy clay			
GW105582	3.50	1.50	Monitoring	0.00	0.90	Fill:sandy clay	-33.9289	151.1474	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.90	1.25	Sandy clay			
				1.25	3.50	Sandy clay			
GW105583	4.00	1.60	Monitoring	0.00	1.00	Fill:gravelly sandy clay	-33.9291	151.1473	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				1.00	1.80	Sandy clay			
				1.80	2.50	Sandy clay			
				2.50	4.00	Clay			
GW105587	6.00	3.00	Water Supply - Domestic	0.00	0.02	Topsoil	-33.9704	151.1413	Southern Alignment - South of President Avenue, East of Princes Highway
				0.02	6.00	Sand, yellow			
GW105588	4.00	2.10	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9558	151.1481	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	3.20	Sand, yellow			
				3.20	4.00	Sand, yellow with shells			

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Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW106388	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9719	151.1392	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	1.50	Fill, bricks etc			
				1.50	2.20	Clay, grey sand			
				2.20	3.20	Sand, grey			
				3.20	4.00	Sand, brown			
GW106399	6.00	3.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9814	151.1453	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.00	Sand, white			
				3.00	6.00	Sand, grey			
GW106415	6.10	3.50	Water Supply - Domestic	0.00	6.10	Sand, unconsolidated	-33.9771	151.1465	Southern Alignment - South of President Avenue, East of Princes Highway
GW106421	0.00	Not Available	Unknown	-	-	Not Available	-33.9716	151.138	Southern Alignment - South of President Avenue, East of Princes Highway
GW106422	0.00	Not Available	Unknown	-	-	Not Available	-33.9767	151.1447	Southern Alignment - South of President Avenue, East of Princes Highway
GW106450	2.00	Not Available	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9484	151.151	Southern Alignment - North of Bay St, East of Princes Highway
				0.30	1.20	Clay, brown & sandstone fill			
				1.20	2.00	Sandstone, fill			
GW106482	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9875	151.1407	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, yellow			
				2.50	4.00	Sand, grey			
GW106564	3.50	1.22	Water Supply - Domestic	0.00	3.50	Sand	-33.9876	151.1398	Southern Alignment - South of President Avenue, East of Princes Highway
				3.50	3.50	Clay			
GW106579	6.10	3.05	Water Supply - Domestic	0.00	6.10	Sand	-33.9679	151.1481	Southern Alignment - South of President Avenue, East of Princes Highway
GW106587	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9561	151.1476	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	2.50	Sand, light brown			
				2.50	4.00	Sand, grey			
GW106603	6.10	2.75	Water Supply - Domestic	0.00	6.10	Sand, unconsolidated	-33.9679	151.1477	Southern Alignment - South of President Avenue, East of Princes Highway
GW106672	5.49	3.05	Water Supply - Domestic	0.00	5.49	Sand, unconsolidated	-33.9661	151.1472	Southern Alignment - South of President Avenue, East of Princes Highway
GW106767	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9759	151.145	Southern Alignment - South of President Avenue, East of Princes Highway
GW106830	7.00	Not Available	Water Supply - Domestic	0.00	7.00	Sand	-33.9443	151.0933	King Georges Rd to Alexandria - South of alignment, West of Princes Highway
GW106846	7.93	1.83	Water Supply - Domestic	0.00	7.93	Sand, unconsolidated, with small se	-33.9727	151.1463	Southern Alignment - South of President Avenue, East of Princes Highway
GW106849	4.27	1.83	Water Supply - Domestic	0.00	4.27	Sand, unconsolidated	-33.9875	151.1421	Southern Alignment - South of President Avenue, East of Princes Highway
GW106860	6.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9715	151.1404	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.00	Sand, yellow			
				3.00	4.50	Sand, brown silty			
				4.50	6.00	Sand, grey			
GW106876	6.00	Not Available	Unknown	0.00	6.00	Sand	-33.9646	151.1479	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW106881	6.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9741	151.1393	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, brown			
				2.50	4.20	Sand, silty yellow			
				4.20	6.00	Sand, grey			
GW106882	5.00	Not Available	Water Supply - Domestic	0.00	5.00	Sand	-33.9713	151.139	Southern Alignment - South of President Avenue, East of Princes Highway
GW106883	6.00	3.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9707	151.1478	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	4.30	Sand, yellow			
				4.30	6.00	Sand, brown			
GW106907	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9699	151.1415	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	1.80	Sand, yellow			
				1.80	4.00	Sand, brown			
GW106920	6.10	2.14	Water Supply - Domestic	0.00	6.10	Sand, unconsolidated	-33.9809	151.1451	Southern Alignment - South of President Avenue, East of Princes Highway

Table C1 Results of NOW Borehole Search

Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW106949	5.80	3.05	Water Supply - Domestic	0.00	5.80	Sand, unconsolidated	-33.967	151.148	Southern Alignment - South of President Avenue, East of Princes Highway
GW106954	5.00	Not Available	Water Supply - Domestic	0.00	3.00	Fill	-33.968	151.1418	Southern Alignment - South of President Avenue, East of Princes Highway
				3.00	5.00	Sand			
GW106956	5.49	2.14	Water Supply - Domestic	0.00	5.49	Sand, unconsolidated	-33.9613	151.142	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW106963	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.978	151.1462	Southern Alignment - South of President Avenue, East of Princes Highway
GW106975	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9575	151.1493	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	2.40	Sand, brown, silty			
				2.40	4.00	Sand, yellow			
GW106984	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9725	151.1406	Southern Alignment - South of President Avenue, East of Princes Highway
GW107020	5.00	Not Available	Water Supply - Domestic	0.00	5.00	Sand	-33.976	151.1397	Southern Alignment - South of President Avenue, East of Princes Highway
GW107045	6.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9712	151.1403	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, yellow			
				2.50	4.00	Sand, silty brown			
				4.00	6.00	Sand, light brown			
GW107051	7.00	3.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9771	151.1463	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.50	Sand, yellow			
				3.50	5.00	Sand, brown silty			
				5.00	7.00	Sand, grey			
GW107114	5.85	3.10	Water Supply - Domestic	0.00	5.85	Sand, unconsolidated	-33.9689	151.1412	Southern Alignment - South of President Avenue, East of Princes Highway
GW107118	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9785	151.1456	Southern Alignment - South of President Avenue, East of Princes Highway
GW107148	5.80	1.53	Water Supply - Domestic	0.00	5.80	Sand	-33.957	151.1462	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW107149	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9874	151.1419	Southern Alignment - South of President Avenue, East of Princes Highway
GW107156	0.00	Not Available	Unknown	-	-	Not Available	-33.9785	151.1459	Southern Alignment - South of President Avenue, East of Princes Highway
GW107166	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9569	151.1486	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	3.00	Sand, brown			
				3.00	4.00	Sand, grey			
GW107184	5.00	Not Available	Water Supply - Domestic	0.00	5.00	Sand	-33.9722	151.1412	Southern Alignment - South of President Avenue, East of Princes Highway
GW107195	3.97	1.53	Water Supply - Domestic	0.00	3.97	Sand	-33.9621	151.1419	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW107207	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9553	151.1487	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	2.50	Sand, brown			
				2.50	4.00	Sand, grey			
GW107216	6.00	3.00	Water Supply - Domestic	0.00	3.50	Sand, brown	-33.9709	151.1478	Southern Alignment - South of President Avenue, East of Princes Highway
				3.50	6.00	Sand, grey			
GW107269	7.50	2.00	Water Supply - Domestic	0.00	1.40	Fill, rocks bricks	-33.9546	151.149	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				1.40	4.00	Sand, brown			
				4.00	6.00	Sand, grey silty			
				6.00	7.50	Clay, grey			
GW107297	5.00	Not Available	Water Supply - Domestic	0.00	5.00	Sand	-33.9682	151.1417	Southern Alignment - South of President Avenue, East of Princes Highway
GW107299	5.60	Not Available	Water Supply - Domestic	0.00	5.60	Sand	-33.9684	151.1415	Southern Alignment - South of President Avenue, East of Princes Highway
GW107344	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.957	151.146	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	2.50	Sand, grey			
				2.50	4.00	Sand, yellow			
GW107357	6.10	3.50	Water Supply - Domestic	0.00	6.10	Sand, unconsolidated	-33.9696	151.1417	Southern Alignment - South of President Avenue, East of Princes Highway

Table C1 Results of NOW Borehole Search

Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW107364	5.19	3.36	Water Supply - Domestic	0.00	5.19	Sand	-33.9692	151.142	Southern Alignment - South of President Avenue, East of Princes Highway
GW107371	6.71	3.66	Water Supply - Domestic	0.00	6.71	Sand, unconsolidated	-33.9646	151.1484	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW107372	5.80	1.83	Water Supply - Domestic	0.00	5.80	Sand, unconsolidated	-33.9696	151.1417	Southern Alignment - South of President Avenue, East of Princes Highway
GW107373	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9694	151.1405	Southern Alignment - South of President Avenue, East of Princes Highway
GW107374	10.00	Not Available	Water Supply - Domestic	0.00	10.00	Sand	-33.9689	151.1402	Southern Alignment - South of President Avenue, East of Princes Highway
GW107423	5.80	2.75	Water Supply - Domestic	0.00	5.80	Sand, unconsolidated	-33.9656	151.1475	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW107450	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9707	151.1471	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.20	Sand, yellow			
				2.20	4.00	Sand, grey			
GW107484	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9693	151.1399	Southern Alignment - South of President Avenue, East of Princes Highway
GW107506	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9735	151.1394	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, brown			
				2.50	4.00	Sand, grey			
GW107513	0.00	2.00	Water Supply - Domestic	-	-	Not Available	-33.974	151.1444	Southern Alignment - South of President Avenue, East of Princes Highway
GW107531	14.00	2.00	Commercial and Industrial	0.00	0.30	Topsoil	-33.9589	151.1482	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	7.20	Yellow sand			
				7.20	14.00	Grey sand			
GW107532	5.50	Not Available	Water Supply - Domestic	0.00	5.50	Sand	-33.975	151.1388	Southern Alignment - South of President Avenue, East of Princes Highway
GW107540	7.00	Not Available	Water Supply - Domestic	0.00	7.00	Sand	-33.9571	151.1489	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW107576	8.54	2.45	Water Supply - Domestic	0.00	8.54	Sand, unconsolidated	-33.9737	151.1446	Southern Alignment - South of President Avenue, East of Princes Highway
GW107590	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9758	151.1443	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, brown			
				2.50	4.00	Sand, grey and shells			
GW107595	5.49	2.75	Water Supply - Domestic	0.00	5.49	Sand, unconsolidated	-33.9731	151.1469	Southern Alignment - South of President Avenue, East of Princes Highway
GW107599	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9799	151.1435	Southern Alignment - South of President Avenue, East of Princes Highway
GW107606	7.00	Not Available	Water Supply - Domestic	0.00	7.00	Sand	-33.9693	151.1397	Southern Alignment - South of President Avenue, East of Princes Highway
GW107650	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9558	151.1487	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	2.50	Sand, yellow			
				2.50	4.00	Sand, grey			
GW107682	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9738	151.1401	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, brown			
				2.50	4.00	Sand, grey			
GW107743	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9687	151.1399	Southern Alignment - South of President Avenue, East of Princes Highway
GW107744	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9564	151.1487	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
				0.30	1.80	Sand, dark brown			
				1.80	4.00	Sand, light brown			
GW107747	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9726	151.1396	Southern Alignment - South of President Avenue, East of Princes Highway
GW107753	6.00	1.30	Monitoring	0.00	1.30	Fill,sand ash,gravel and clay	-33.9286	151.148	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				1.30	3.50	Sandy clay grey &sand lenses			
				3.50	3.80	Clay brown			
				3.80	4.90	Sandy clay,grey,& lenses			
				4.90	6.00	Sand,light,grey,m/grain			

Table C1 Results of NOW Borehole Search

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Table C1 Results of NOW Borehole Search

Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW108222	6.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9754	151.1468	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.30	Sand, yellow			
				3.30	5.20	Sand, brown			
				5.20	6.00	Sand, grey			
GW108268	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9807	151.1435	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	4.00	Sand, brown			
GW108288	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9716	151.1386	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	2.50	Sand, grey			
				2.50	4.00	Sand, brown			
GW108295	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.9444	151.1486	Southern Alignment - North of Bay St, East of Princes Highway
GW108321	5.60	Not Available	Water Supply - Domestic	0.00	5.60	Sand	-33.9732	151.1454	Southern Alignment - South of President Avenue, East of Princes Highway
GW108402	8.54	3.36	Water Supply - Domestic	0.00	8.54	Sand, unconsolidated	-33.9752	151.1448	Southern Alignment - South of President Avenue, East of Princes Highway
GW108404	7.63	1.53	Water Supply - Domestic	0.00	7.63	Sand, unconsolidated	-33.9567	151.1479	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW108406	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.9356	151.1553	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW108416	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9682	151.142	Southern Alignment - South of President Avenue, East of Princes Highway
GW108439	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.9443	151.1485	Southern Alignment - North of Bay St, East of Princes Highway
GW108449	7.02	3.60	Water Supply - Domestic	0.00	7.02	Sand, unconsolidated	-33.9654	151.1488	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW108473	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9667	151.1475	Southern Alignment - South of President Avenue, East of Princes Highway
				0.00	0.30	Top soil			
				0.30	1.20	Brown sand			
				1.20	2.70	Brown silty sand			
				2.70	4.70	Grey sandy clay			
				4.70	12.50	Brown silty sand			
GW108493	6.00	3.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9799	151.1454	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	0.35	Sand, yellow			
				0.35	6.00	Sand, grey			
GW108496	6.10	2.75	Water Supply - Domestic	0.00	6.10	Sand , unconsolidated	-33.9684	151.1476	Southern Alignment - South of President Avenue, East of Princes Highway
GW108551	6.00	Not Available	Water Supply - Domestic	0.00	6.00	Sand	-33.9681	151.1389	Southern Alignment - South of President Avenue, East of Princes Highway
GW108554	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9878	151.1404	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	3.00	Sand, yellow			
				3.00	4.00	Sand, grey			
GW108563	8.23	1.83	Water Supply - Domestic	0.00	8.23	Sand, unconsolidated	-33.9744	151.1453	Southern Alignment - South of President Avenue, East of Princes Highway
GW108588	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.9358	151.1546	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW108590	3.97	2.14	Water Supply - Domestic	0.00	3.97	Sand, unconsolidated then clay	-33.9556	151.1447	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW108600	5.80	1.83	Water Supply - Domestic	0.00	5.80	Sand,	-33.9691	151.1414	Southern Alignment - South of President Avenue, East of Princes Highway
GW108650	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9745	151.1401	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	1.50	Sand, yellow			
				1.50	4.00	Sand, brown			
GW108716	5.00	Not Available	Water Supply - Domestic	0.00	5.00	Sand	-33.9737	151.1393	Southern Alignment - South of President Avenue, East of Princes Highway
GW108777	6.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9714	151.1387	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	6.00	Sand, grey			
GW108812	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9874	151.1444	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	4.00	Sand, yellow			
GW108816	8.54	1.83	Water Supply - Domestic	0.00	8.54	Sand	-33.9742	151.1441	Southern Alignment - South of President Avenue, East of Princes Highway
GW108870	0.00	Not Available	Irrigation	-	-	Not Available	-33.946	151.1507	Southern Alignment - North of Bay St, East of Princes Highway

Table C1 Results of NOW Borehole Search

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Table C1 Results of NOW Borehole Search

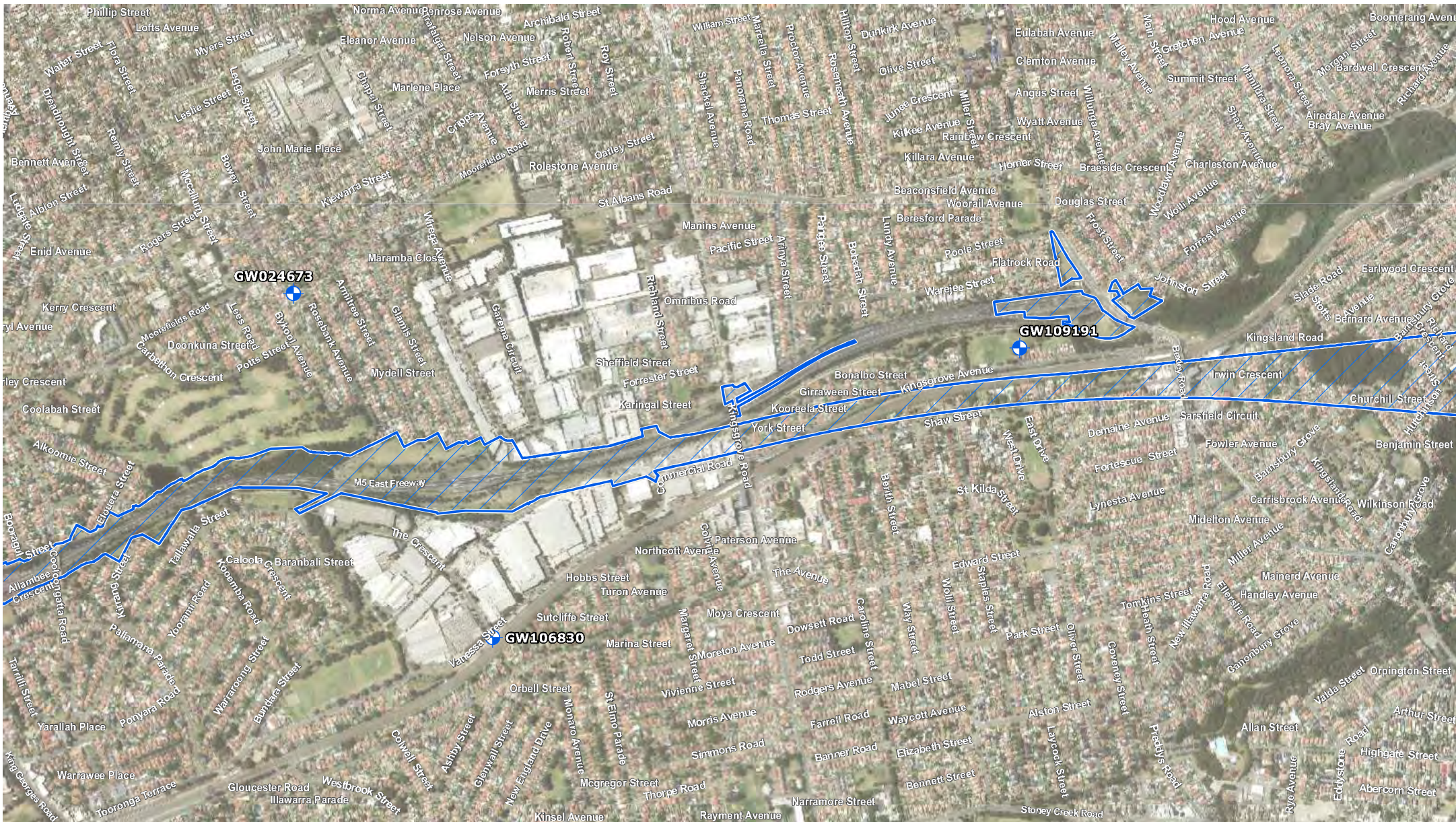
Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW109657	7.00	1.50	Water Supply - Domestic	0.00	4.00	Yellow sand	-33.968	151.1469	Southern Alignment - South of President Avenue, East of Princes Highway
				4.00	6.00	Dark brown sand			
				6.00	7.00	Light brown sand			
GW109775	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9738	151.1395	Southern Alignment - South of President Avenue, East of Princes Highway
GW109821	35.00	14.50	Monitoring	0.00	2.20	Fill	-33.9139	151.1808	King Georges Rd to Alexandria - South East of Princes Highway
				2.20	35.00	Ashfield shale			
GW109822	10.45	3.00	Monitoring	0.00	2.60	Fill	-33.9167	151.1806	King Georges Rd to Alexandria - South East of Princes Highway
				2.60	3.80	Clayey sand			
				3.80	8.20	Sand			
				8.20	10.45	Clay			
				0.00	3.00	Fill			
GW109823	29.00	12.50	Monitoring	3.00	6.00	Clayey sand	-33.9167	151.1807	King Georges Rd to Alexandria - South East of Princes Highway
				6.00	8.11	Sand			
				8.11	11.50	Sandy clay			
				11.50	29.00	Shale			
				0.00	4.50	Fill			
GW109824	20.70	4.51	Monitoring	4.50	9.00	Laminite	-33.9162	151.1761	King Georges Rd to Alexandria - South East of Princes Highway
				9.00	17.00	Shale			
				17.00	20.70	Sandstone			
GW109825	22.00	14.90	Monitoring	0.00	4.50	Fill	-33.9143	151.1794	King Georges Rd to Alexandria - South East of Princes Highway
				4.50	22.00	Shale			
GW109939	6.10	3.10	Water Supply - Domestic	0.00	6.10	Unconsolidated all sands.	-33.9818	151.1456	Southern Alignment - South of President Avenue, East of Princes Highway
GW109963	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.936	151.1546	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW109964	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.9359	151.1544	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW109965	8.00	Not Available	Water Supply - Domestic	0.00	8.00	Sand	-33.9355	151.1551	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW109966	3.00	Not Available	Water Supply - Domestic	0.00	3.00	Clay	-33.9355	151.1539	King Georges Rd to Alexandria - South of alignment, East of Princes Highway
GW110189	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9688	151.1461	Southern Alignment - South of President Avenue, East of Princes Highway
GW110202	6.00	Not Available	Water Supply - Domestic	0.00	5.50	All sand	-33.9716	151.1402	Southern Alignment - South of President Avenue, East of Princes Highway
GW110206	5.80	2.13	Water Supply - Domestic	0.00	5.80	Unconsolidated all sand.	-33.9755	151.1389	Southern Alignment - South of President Avenue, East of Princes Highway
GW110219	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9687	151.1407	Southern Alignment - South of President Avenue, East of Princes Highway
GW110228	8.85	2.14	Water Supply - Domestic	0.00	8.85	Unconsolidated all sand	-33.977	151.1447	Southern Alignment - South of President Avenue, East of Princes Highway
GW110229	7.32	3.97	Water Supply - Domestic	0.00	7.32	Unconsolidated all sand	-33.9649	151.1489	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW110271	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9685	151.1416	Southern Alignment - South of President Avenue, East of Princes Highway
GW110274	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9563	151.1486	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW110323	9.15	2.35	Water Supply - Domestic	0.00	9.15	Unconsolidated all sands	-33.9746	151.1459	Southern Alignment - South of President Avenue, East of Princes Highway
GW110422	6.00	4.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9691	151.1478	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	4.00	Sand white			
				4.00	6.00	Sand, grey with shells			
GW110652	5.49	1.83	Water Supply - Domestic	0.00	5.49	Unconsolidated all sands	-33.9701	151.1475	Southern Alignment - South of President Avenue, East of Princes Highway
				0.00	3.00	Sand yellow			
GW110727	6.00	2.00	Water Supply - Domestic	3.00	5.00	Dark brown sand	-33.9733	151.1458	Southern Alignment - South of President Avenue, East of Princes Highway
				5.00	6.00	Light brown sand			
GW110735	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9438	151.1489	Southern Alignment - North of Bay St, East of Princes Highway
GW110842	8.54	2.14	Water Supply - Domestic	0.00	8.54	Unconsolidated all sand	-33.9769	151.1444	Southern Alignment - South of President Avenue, East of Princes Highway

Table C1 Results of NOW Borehole Search

Bore ID	Depth of Bore	SWL*	Purpose	From (mBGL)	To (mBGL)	Geology	Latitude	Longitude	Location relative to M5 Alignment
GW110865	4.00	2.00	Water Supply - Domestic	0.00	0.30	Topsoil	-33.9715	151.1384	Southern Alignment - South of President Avenue, East of Princes Highway
				0.30	4.00	Sand brown			
GW111017	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9651	151.1476	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW111123	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9788	151.1436	Southern Alignment - South of President Avenue, East of Princes Highway
GW111225	8.00	2.00	Water Supply - Domestic	0.00	2.00	Sand brown	-33.9738	151.1453	Southern Alignment - South of President Avenue, East of Princes Highway
				2.00	6.00	Sand dark brown			
				6.00	8.00	Sand light brown			
GW111229	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9713	151.138	Southern Alignment - South of President Avenue, East of Princes Highway
GW111285	0.00	5.00	Water Supply - Domestic	-	-	Not Available	-33.9728	151.1401	Southern Alignment - South of President Avenue, East of Princes Highway
GW111295	0.00	Not Available	Water Supply - Domestic	-	-	Not Available	-33.9729	151.1473	Southern Alignment - South of President Avenue, East of Princes Highway
GW111320	5.20	2.52	Monitoring	0.00	0.18	Concrete	-33.9145	151.186	King Georges Rd to Alexandria - South East of Princes Highway
				0.18	0.33	Sand,gravelly clayey,m/dense			
				0.33	0.70	Sand,very loose,moist			
				0.70	1.50	Sand,clayey,medium dense,moist,d			
				1.50	4.00	Sand,loose, very moist,brown			
				4.00	4.50	Sand clayey,medium dense,greyl/bro			
				4.50	5.20	Clay sandy,soft,saturated,l/plasticity			
GW111321	5.00	2.64	Monitoring	0.00	0.18	Concrete	-33.9154	151.1862	King Georges Rd to Alexandria - South East of Princes Highway
				0.18	0.90	Gravelly clayey sand,dense,moist			
				0.90	1.60	Gravel silty,dense,very moist			
				1.60	2.00	Sand,clayey sand,greyl,fine grained			
				2.00	5.00	Clay,sandy,soft,l/plasticity,sand fine			
GW111344	4.00	1.55	Monitoring	0.00	0.10	Asphalt:poor condition,cracks	-33.9291	151.1514	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.10	1.00	Fill,road base,some gravel			
				1.00	1.50	Sand,loamy,brown,fine grained			
				1.50	3.50	Sand,fine grained,moist, very loose			
				3.50	4.00	Clay,high capacity,greyl,minor sand			
GW111345	4.00	1.24	Monitoring	0.00	0.10	Asphalt:poor condition	-33.929	151.1516	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.10	1.20	Fill,sandy gravel,greyl,clay,sandy			
				1.20	1.50	Loam.sandy,fine grained,brown,no c			
				1.50	4.00	Sand,fine to medium grained,wet,loc			
GW111346	4.50	1.25	Monitoring	0.00	0.10	Asphalt:poor condition,cracks	-33.9293	151.1519	King Georges Rd to Alexandria - North of alignment, West of Princes Highway
				0.10	1.20	Fill,sandy gravel,dry,loose			
				1.20	1.60	Loam sandy,fine grained,brown,moist			
				1.60	4.50	Sand,with clay,fine grained,brown,w			
GW111414	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9728	151.1402	Southern Alignment - South of President Avenue, East of Princes Highway
GW111467	6.00	2.00	Water Supply - Domestic	0.00	2.00	Sand yellow	-33.9798	151.1435	Southern Alignment - South of President Avenue, East of Princes Highway
				2.00	5.00	Sand dark brown			
				5.00	6.00	Sand grey			
				0.00	6.00	All sand			
GW111558	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All sand	-33.9559	151.1479	Southern Alignment - Between Bay St and President Avenue, East of Princes Highway
GW111561	6.00	Not Available	Water Supply - Domestic	0.00	6.00	All san	-33.9693	151.1388	Southern Alignment - South of President Avenue, East of Princes Highway
GW111580	5.80	2.75	Water Supply - Domestic	0.00	5.80	Unconsolidated all sands	-33.9678	151.1479	Southern Alignment - South of President Avenue, East of Princes Highway
GW111613	6.00	3.00	Water Supply - Domestic	0.00	0.40	Topsoil	-33.979	151.1446	Southern Alignment - South of President Avenue, East of Princes Highway
				0.40	2.00	Sand grey			
				2.00	4.00	Sand dark brown			
				4.00	6.00	Sand light brown			

' = indicative Water Bearing Zone

* = Sourced from Pineena



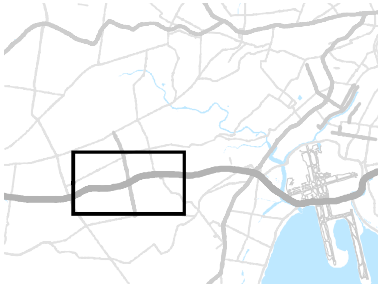
 Project Worst Case Footprint

WestConnex
Building for the future

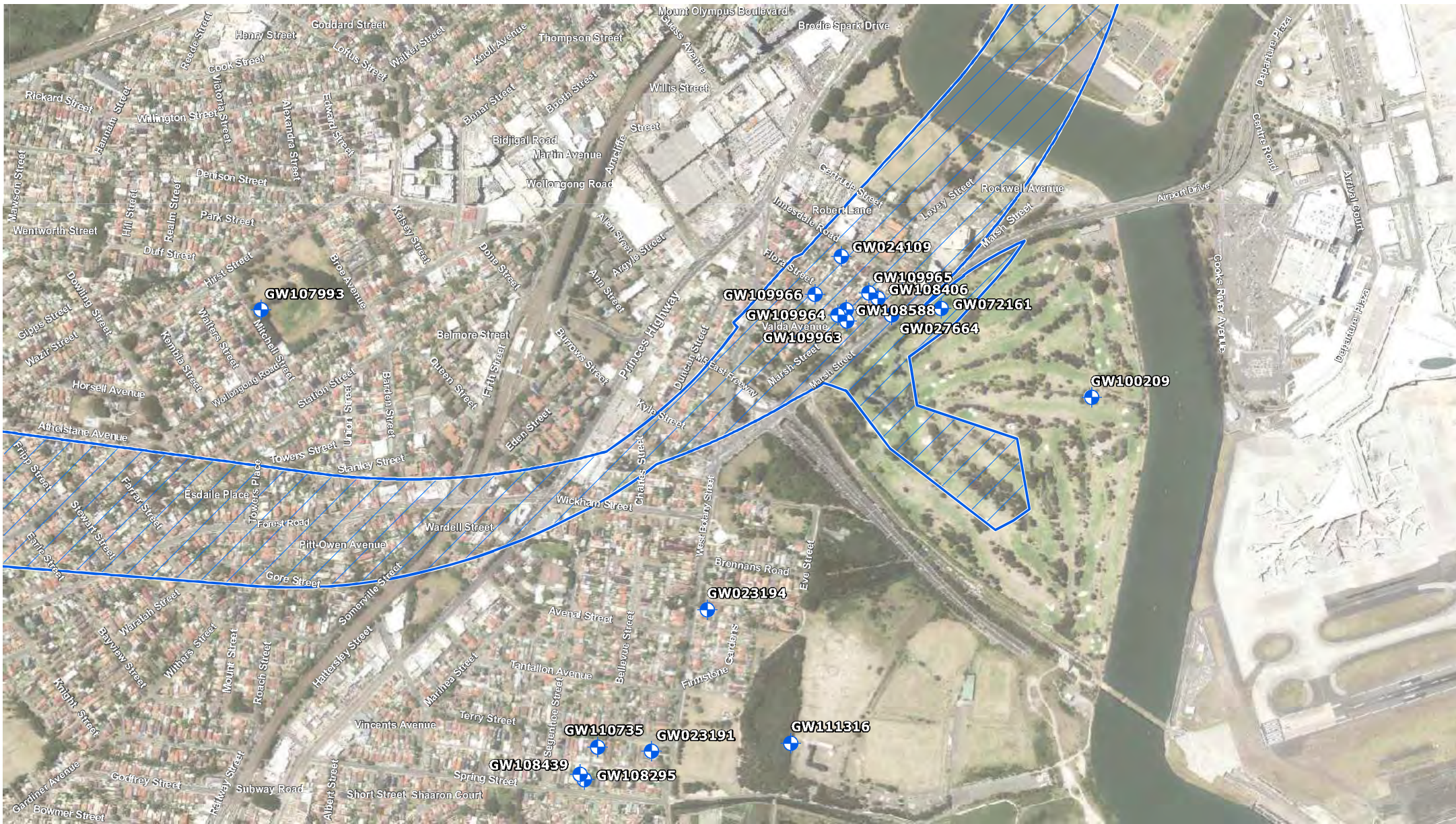
AECOM



Disclaimer:
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Map data copyright 2014 WestConnex Delivery Authority, NSW. Spatial data used
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AECOM/DIA makes no representations or warranties of any kind, about the accuracy,
reliability, completeness, suitability or fitness, for purpose in relation to the map content.



SCALE	1:10,000	A3
SHEET	Page of	COORDINATE SYSTEM GDA 1994 MGA Zone 56
TITLE	PROJECT AREA	
PROJECT	WESTCONNEX NEW M5	
CLIENT	WESTCONNEX DELIVERY AUTHORITY	
DRAWN	LC	PROJECT # 60327128
CHECK	DATE 19/08/2015	WCXTR093 01 60327128

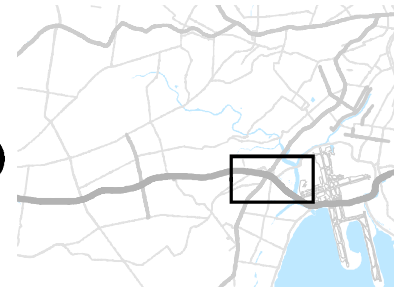


Project Worst Case Footprint

WestConnex
Building for the future

AECOM

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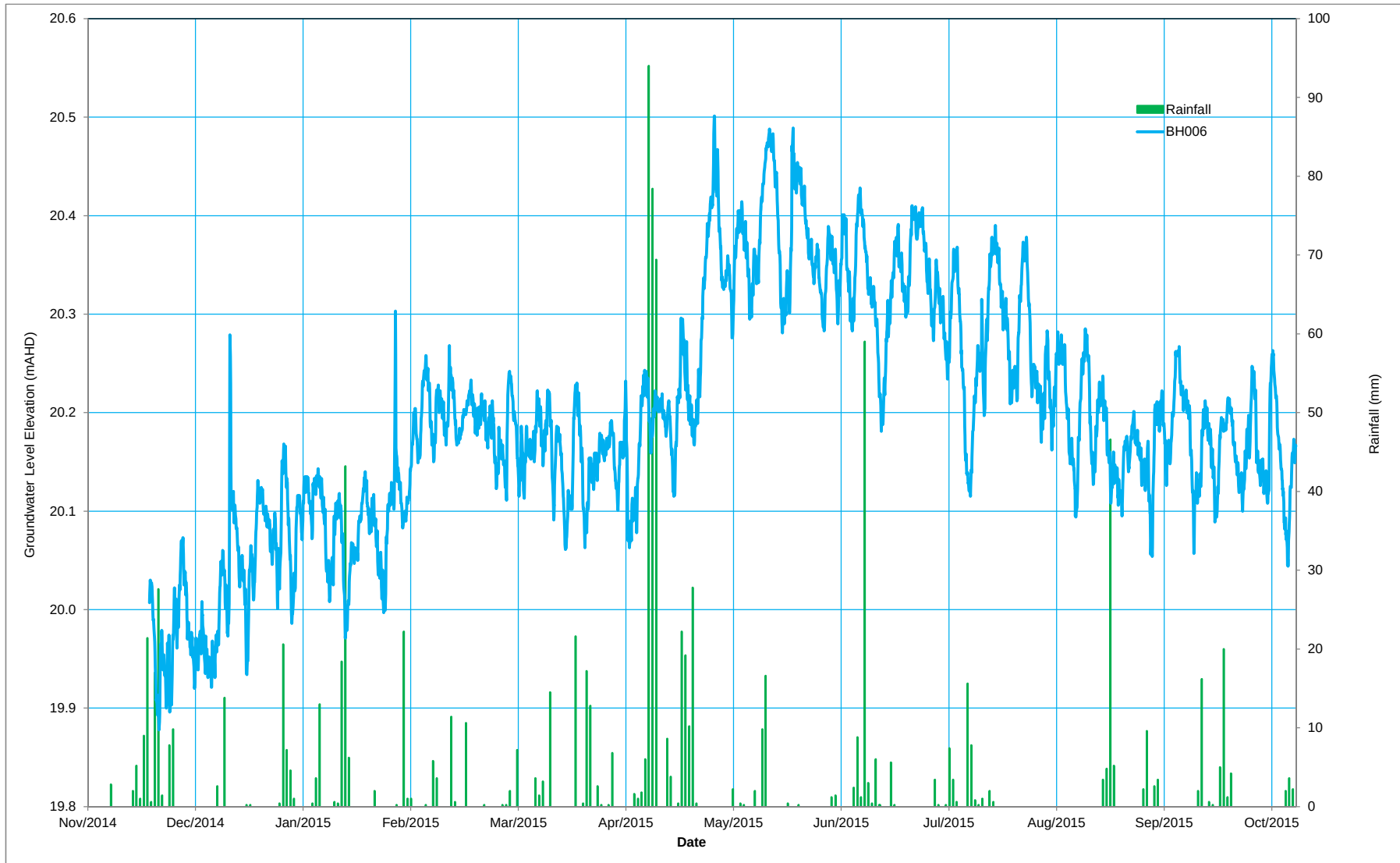


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Page of		GDA 1994 MGA Zone 56
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PROJECT	WESTCONNEX NEW M5	
CLIENT	WESTCONNEX DELIVERY AUTHORITY	
DRAWN	LC	PROJECT #
CHECK	DATE	WCXTR093 01 60327128
	19/08/2015	

Appendix D

Hydrographs

Appendix D Hydrographs

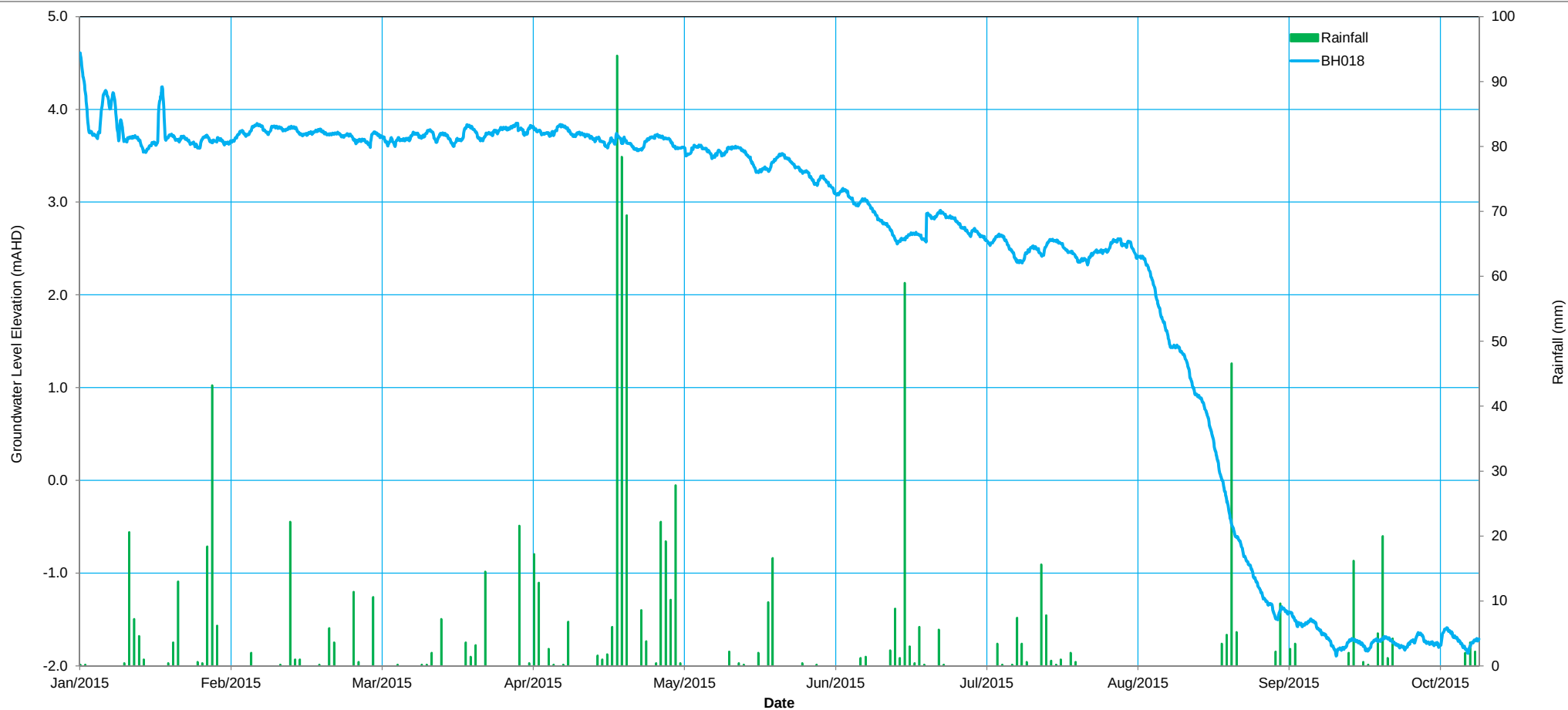


Title: Hydrograph BH006
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Beverly Grove Park, Kingsgrove

Screen Interval: 22.0 - 25.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 24.71 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D1
 Project No: 60327128

BH006

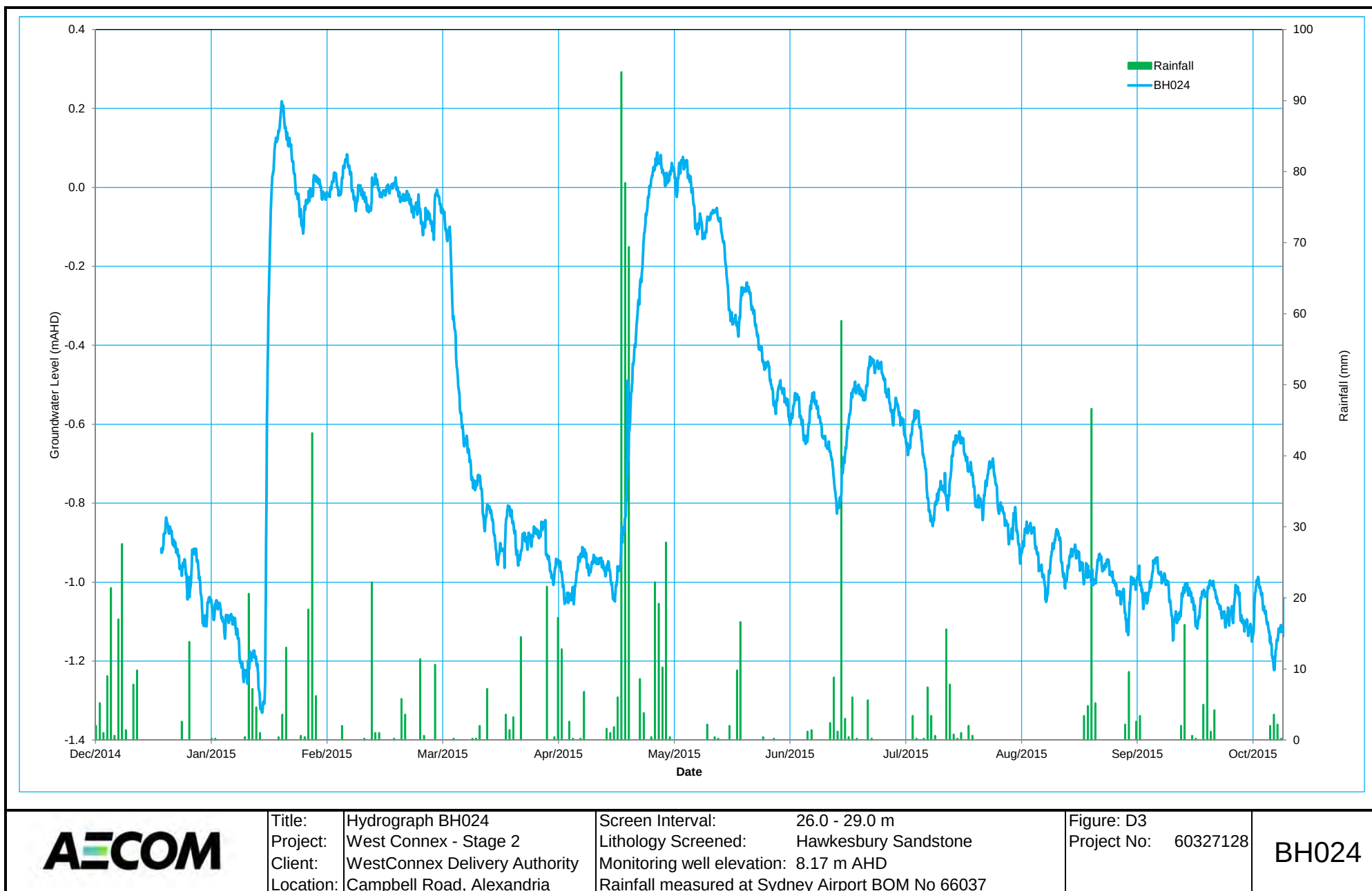


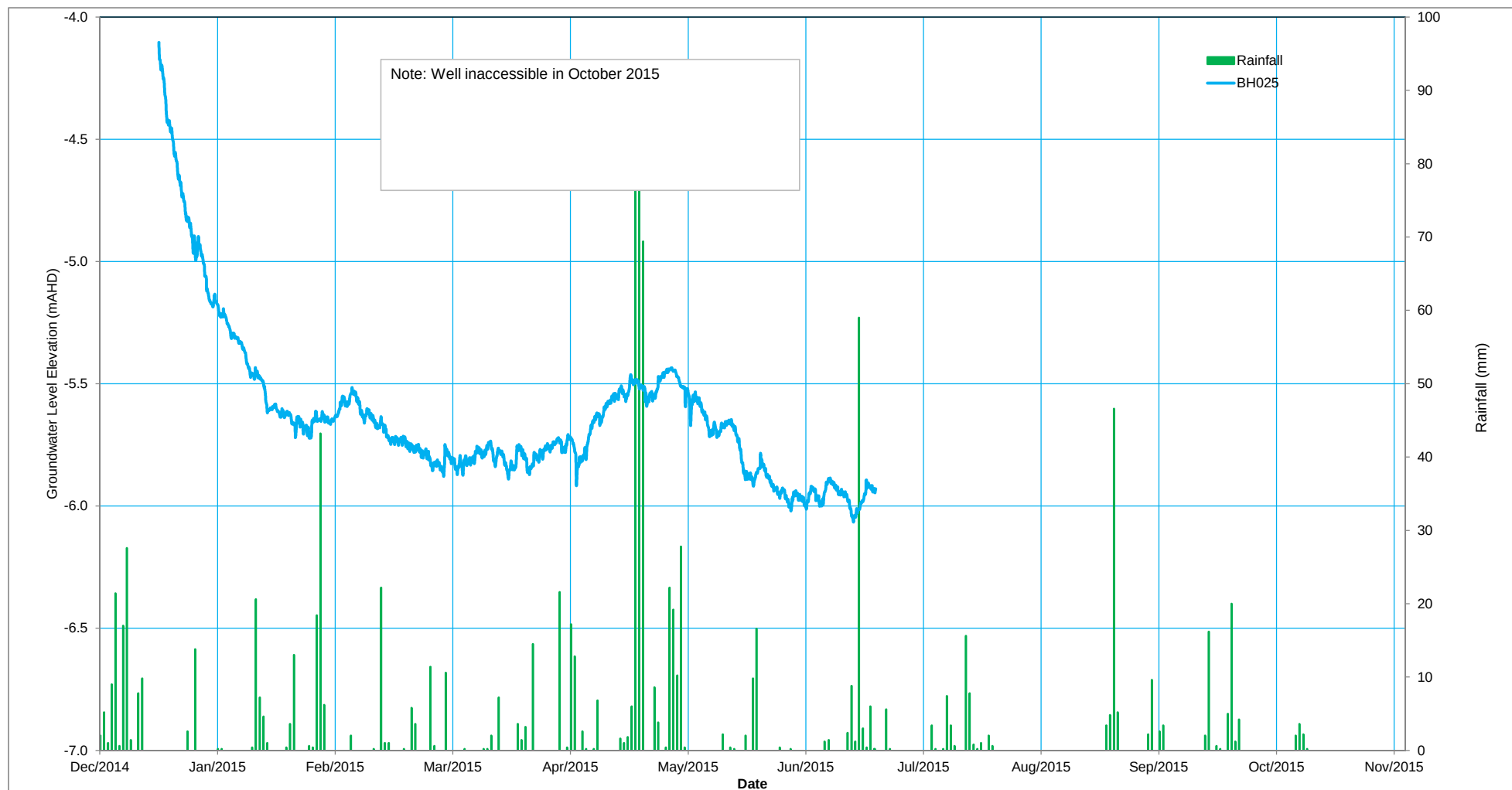
Title: Hydrograph BH018
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Campbell/Burrows Road, Alexandria

Screen Interval: 51.0 - 54.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 34.84 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D2
 Project No: 60327128

BH018



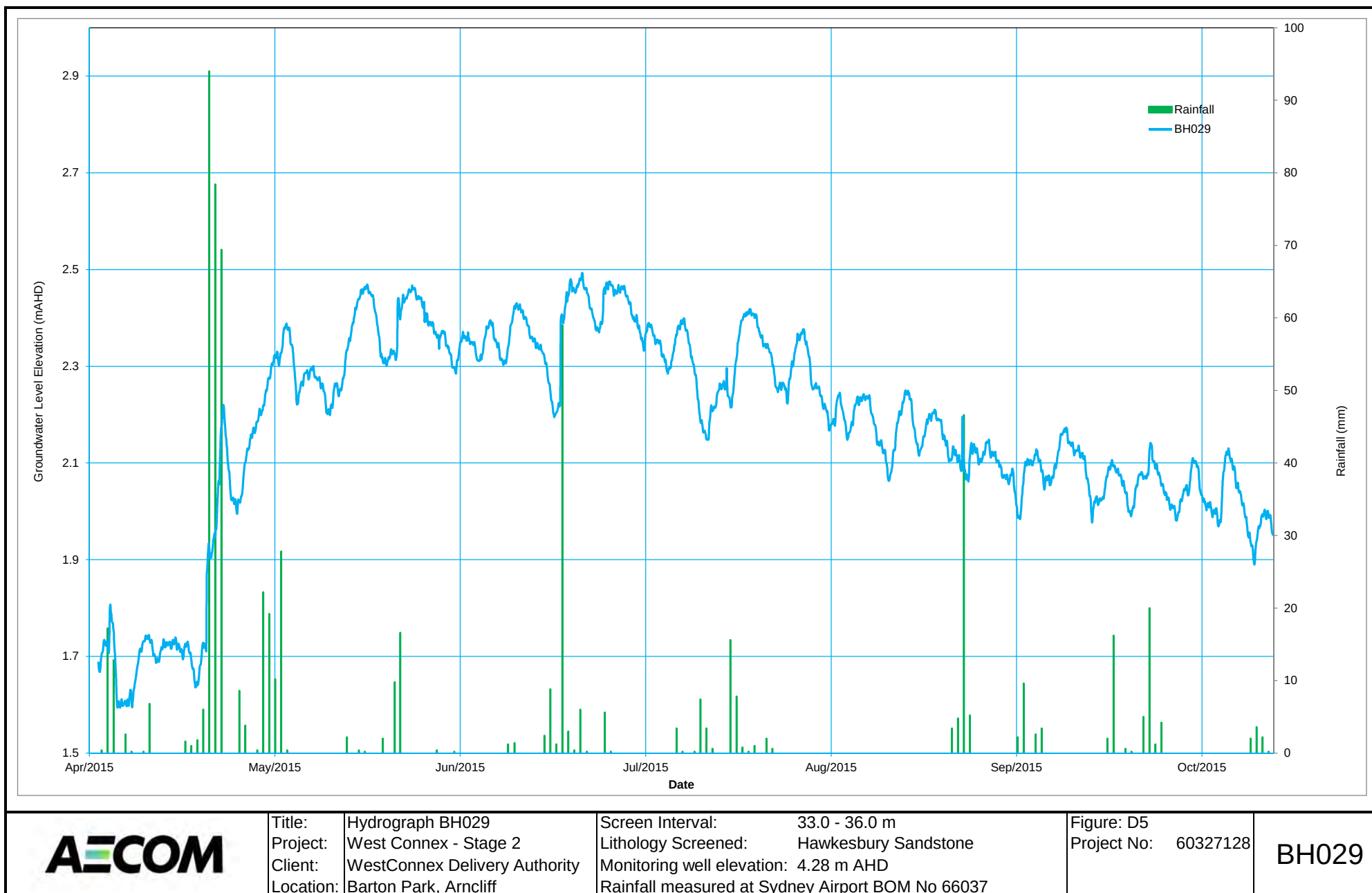


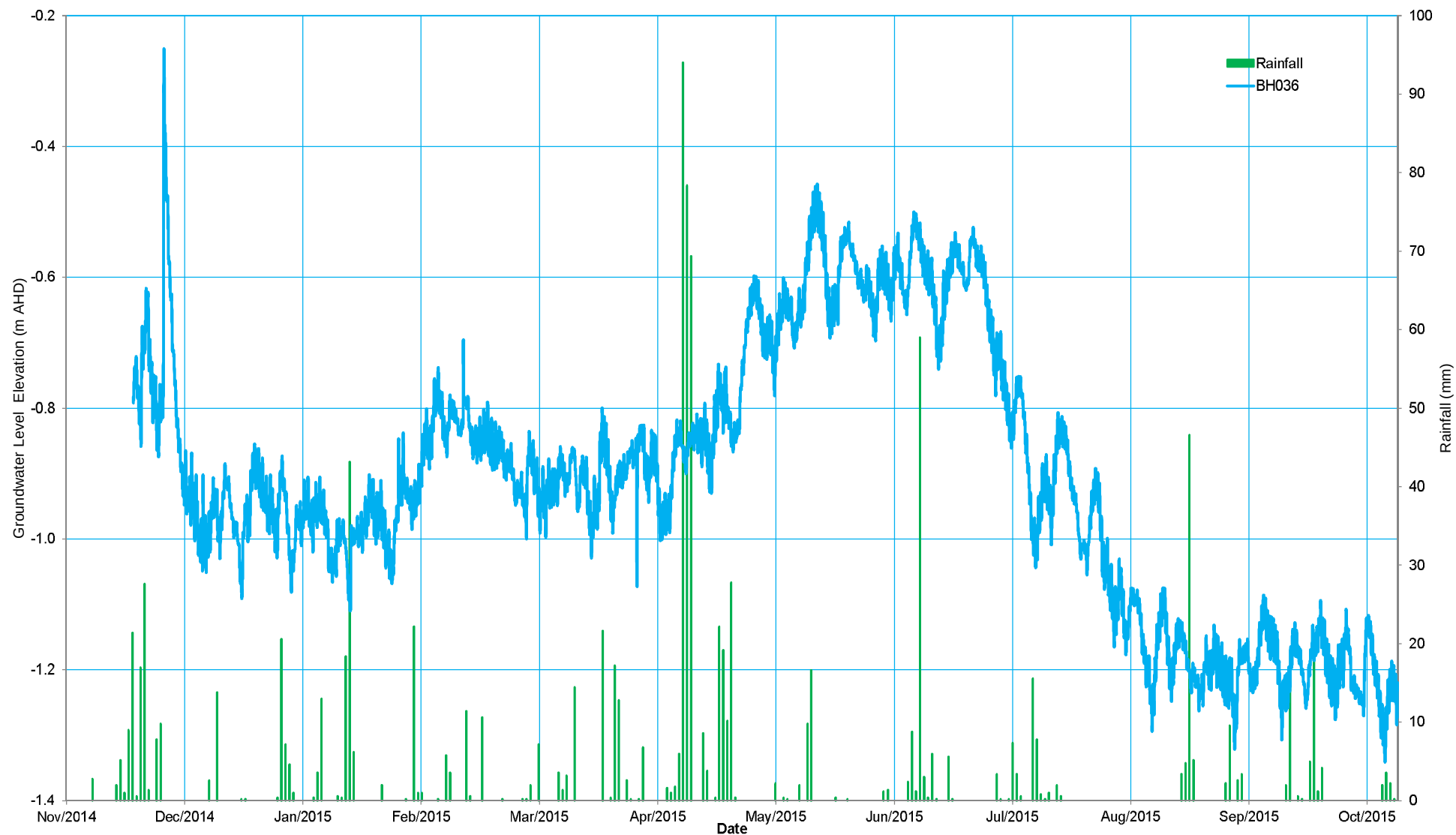
Title: Hydrograph BH025
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Queen Street, Arncliffe

Screen Interval: 55.0 - 58.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 23.85 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D4
 Project No: 60327128

BH025



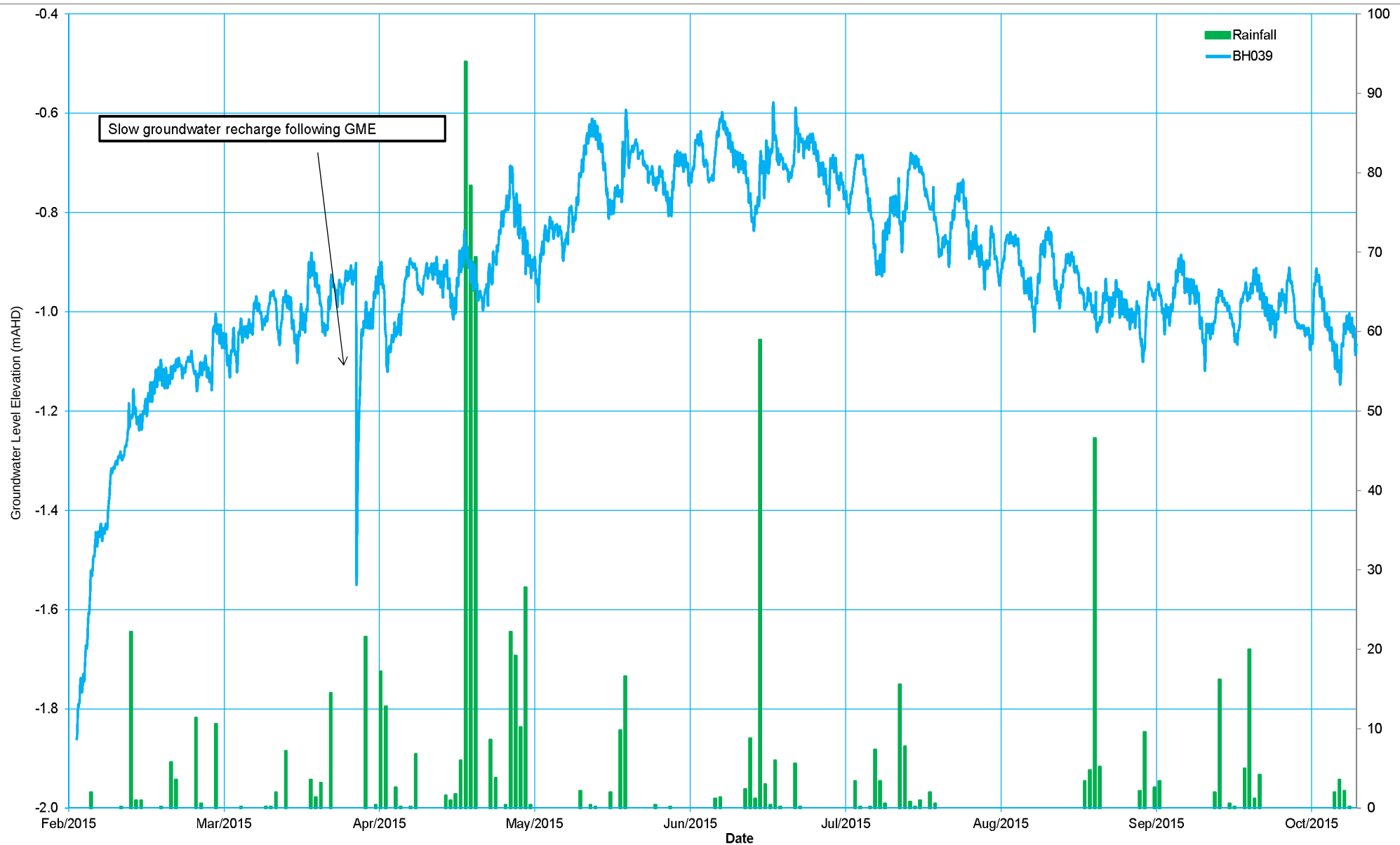


Title: Hydrograph BH036
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Cahill Park, Wolli Creek

Screen Interval: 60.0 - 63.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 1.58 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D6
 Project No: 60327128

BH036

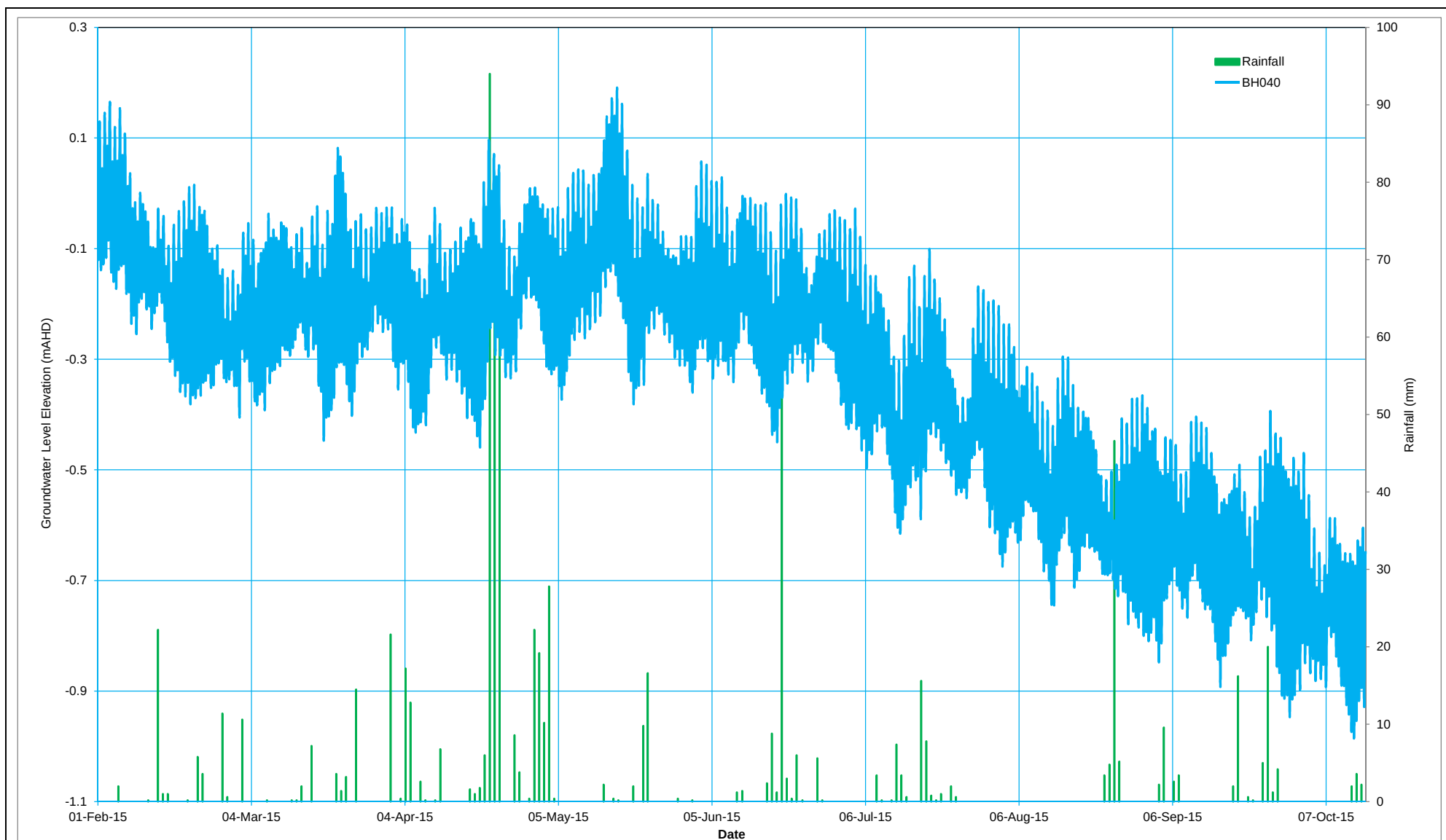


Title: Hydrograph BH039
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Discovery Park, Brodie Sparke Dr, Wolli Creek

Screen Interval: 49.0 - 52.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 3.32 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D7
 Project No: 60327128

BH039

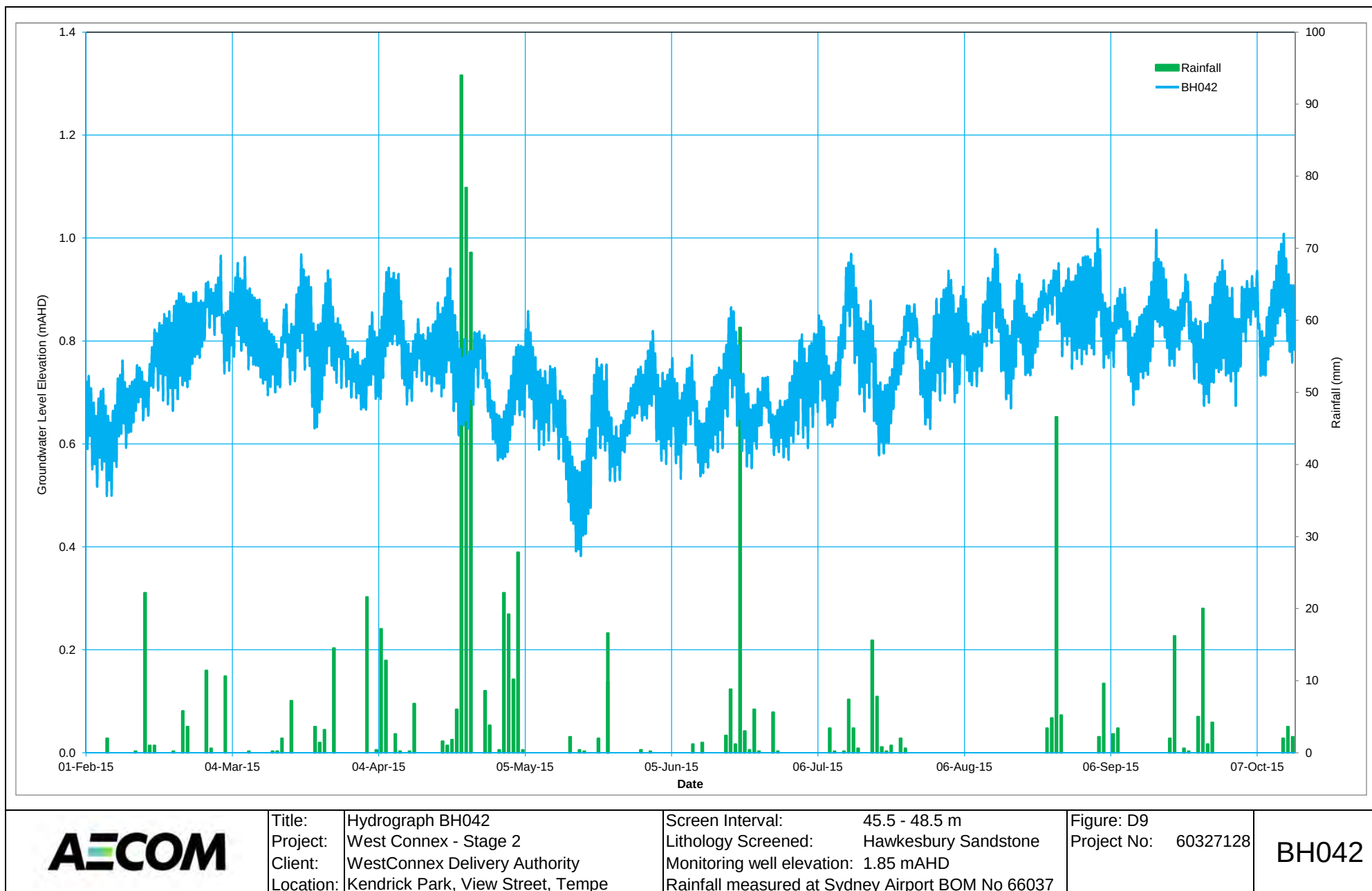


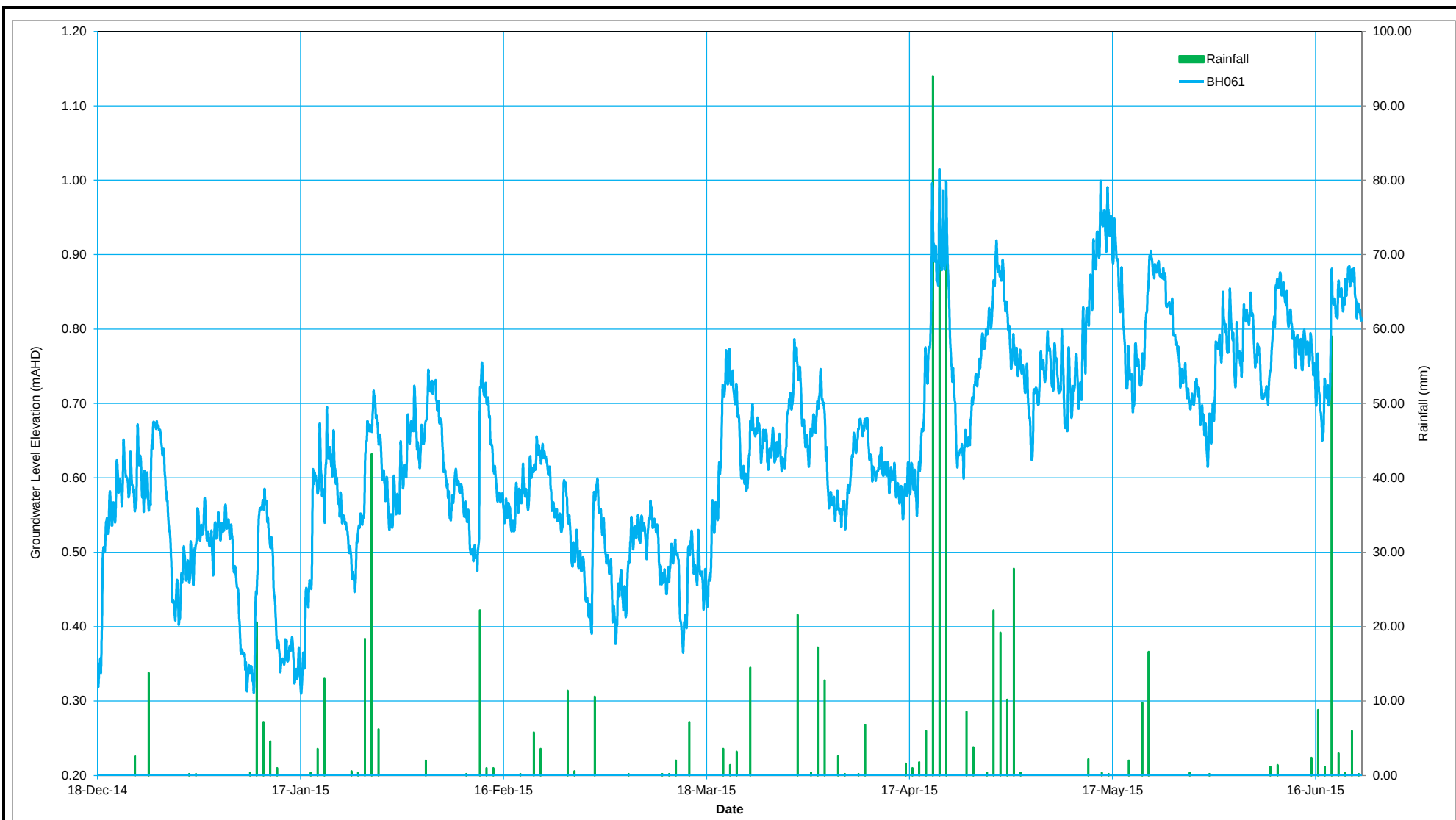
Title: Hydrograph BH040
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: View St, Tempe

Screen Interval: 65.0 - 68.0 m
 Lithology Screened: Andesite dyke (Basalt)
 Monitoring well elevation: 1.61 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D8
 Project No: 60327128

BH040



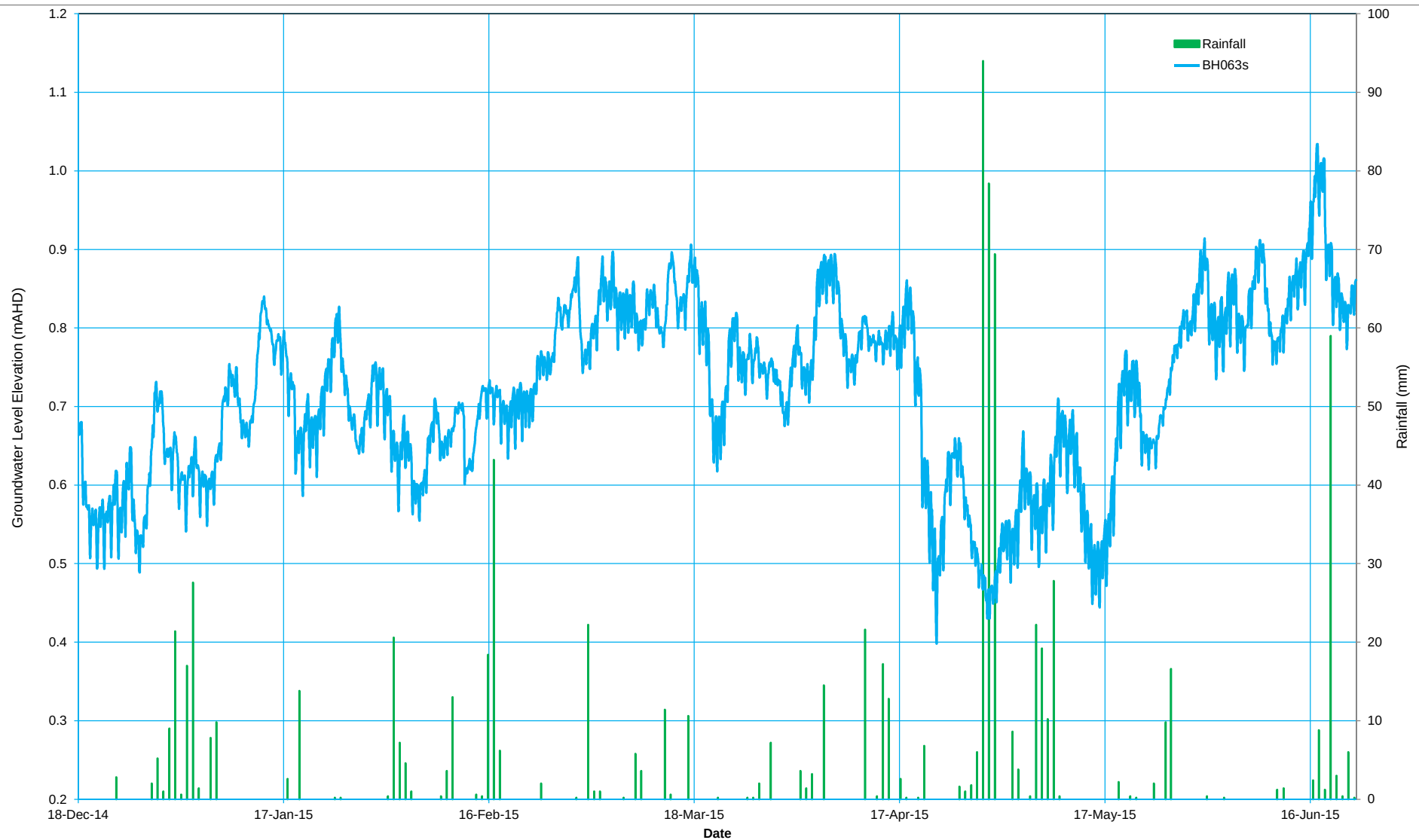


Title: Hydrograph BH061s
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Barton Park, Muddy Creek, Arncliffe

Screen Interval: 7.0 - 10.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 0.85 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D10
 Project No: 60327128

BH061s

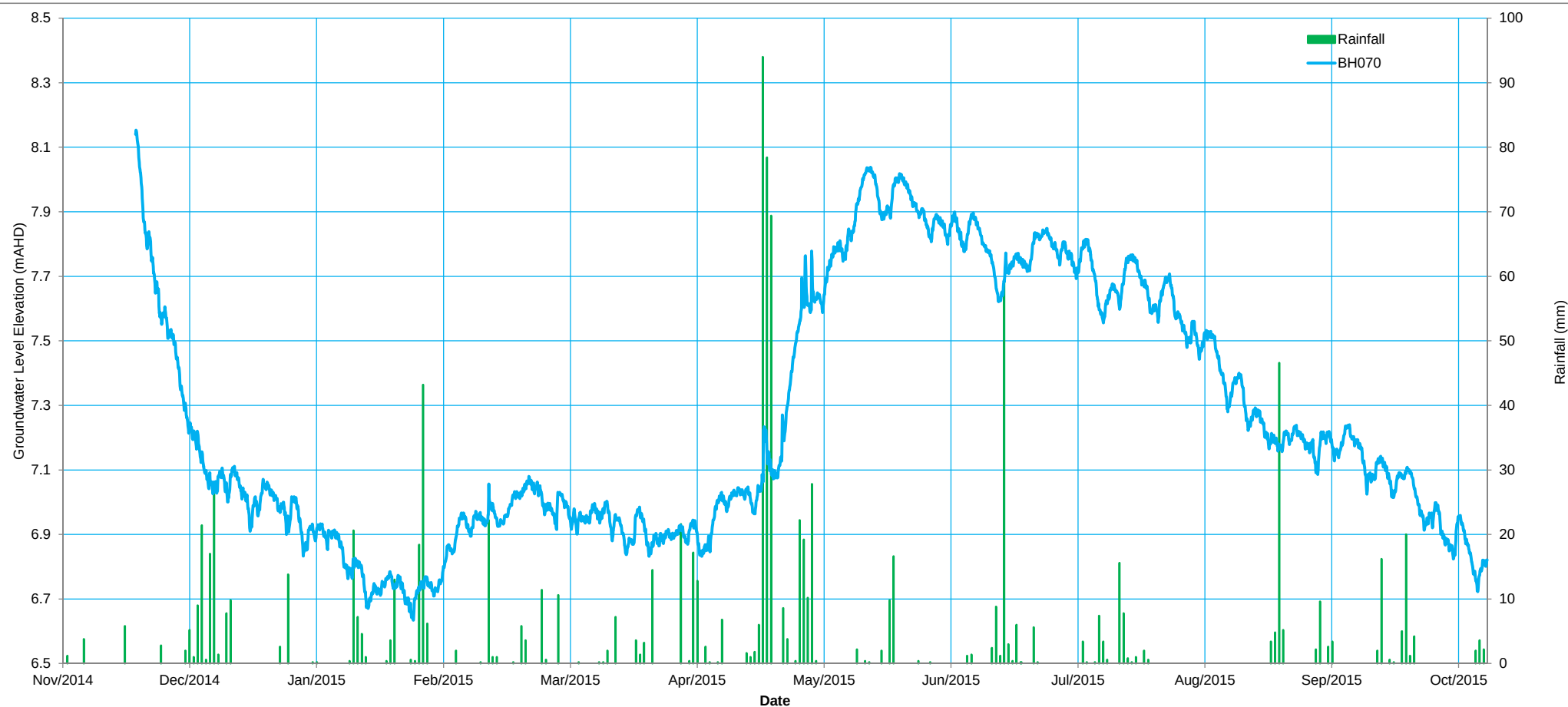


Title: Hydrograph BH063s
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Banksia Field, Arncliffe

Screen Interval: 5.0 - 8.0 m
 Lithology Screened: Botany Sands
 Monitoring well elevation: 3.31 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D11
 Project No: 60327128

BH063s

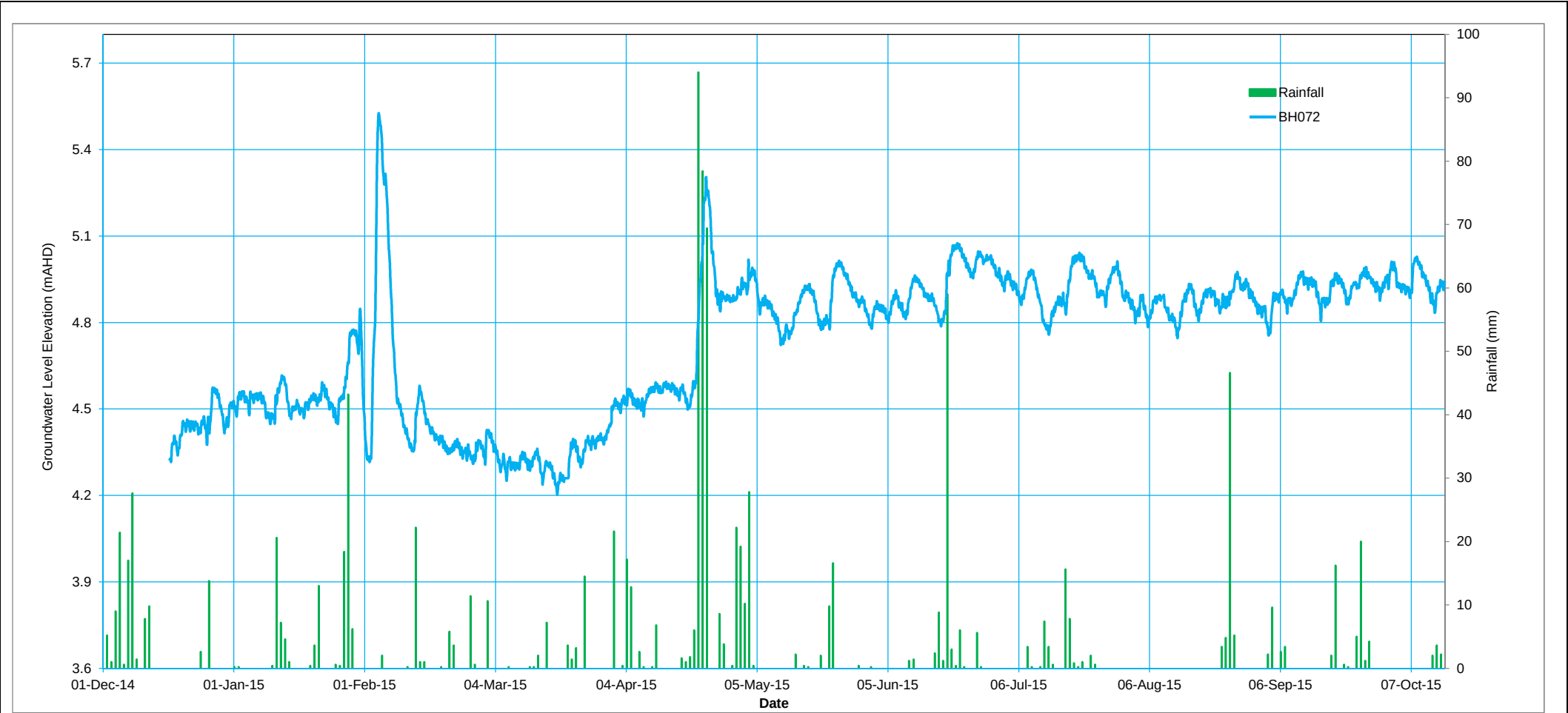


Title: Hydrograph BH070
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Bellevue Court, Arncliffe

Screen Interval: 35.0 - 38.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 17.54 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D12
 Project No: 60327128

BH070

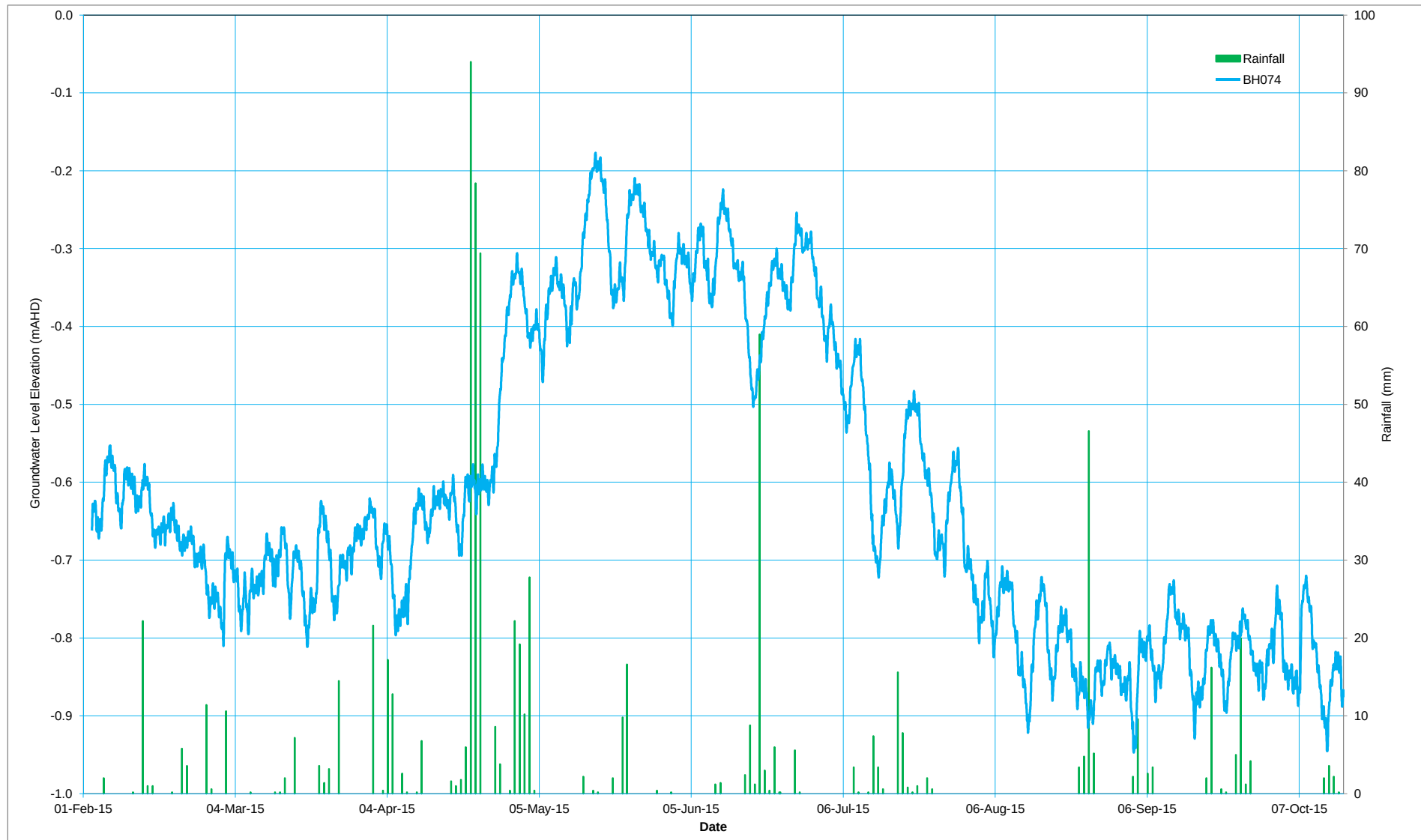


Title: Hydrograph BH072
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Kingsgrove Ave Reserve, Kingsgrove

Screen Interval: 28.0 - 31.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 7.47 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D13
Project No: 60327128

BH072

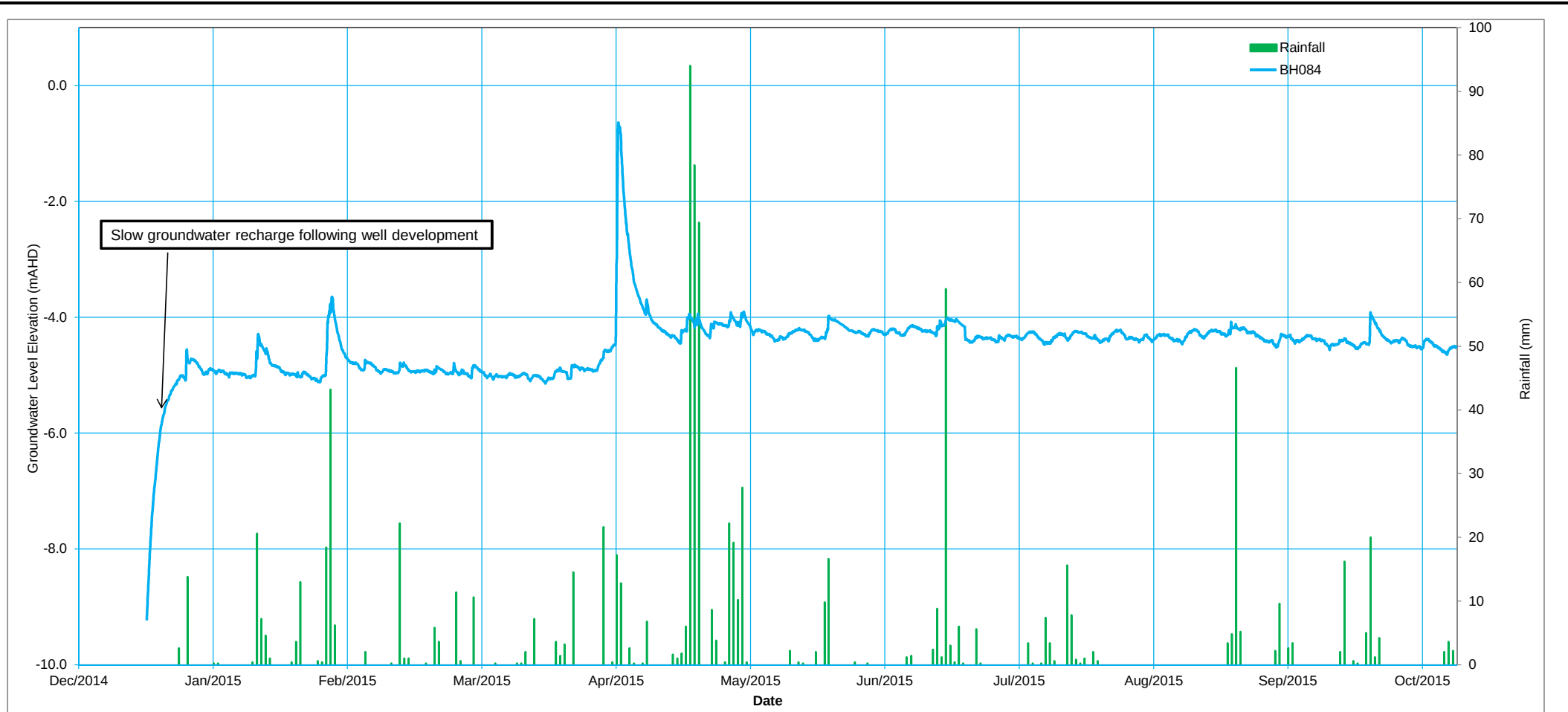


Title: Hydrograph BH074
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Argyle St, Arncliffe

Screen Interval: 39.0 - 42.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 2.58 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D14
Project No: 60327128

BH074

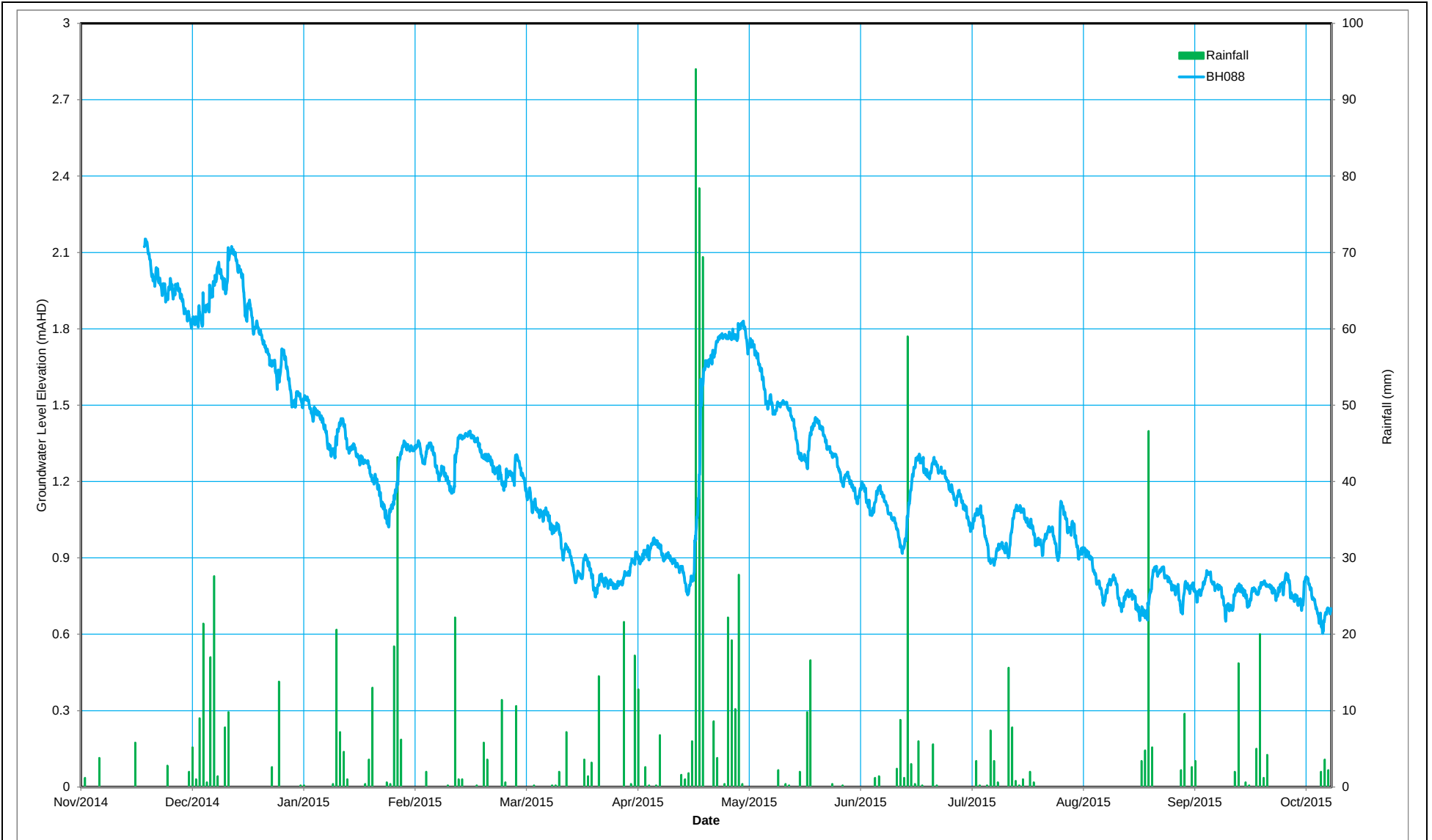


Title: Hydrograph BH084
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Kingsgrove Ave Reserve, Kingsgrove

Screen Interval: 47.5 - 50.5 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 30.02 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D15
 Project No: 60327128

BH084

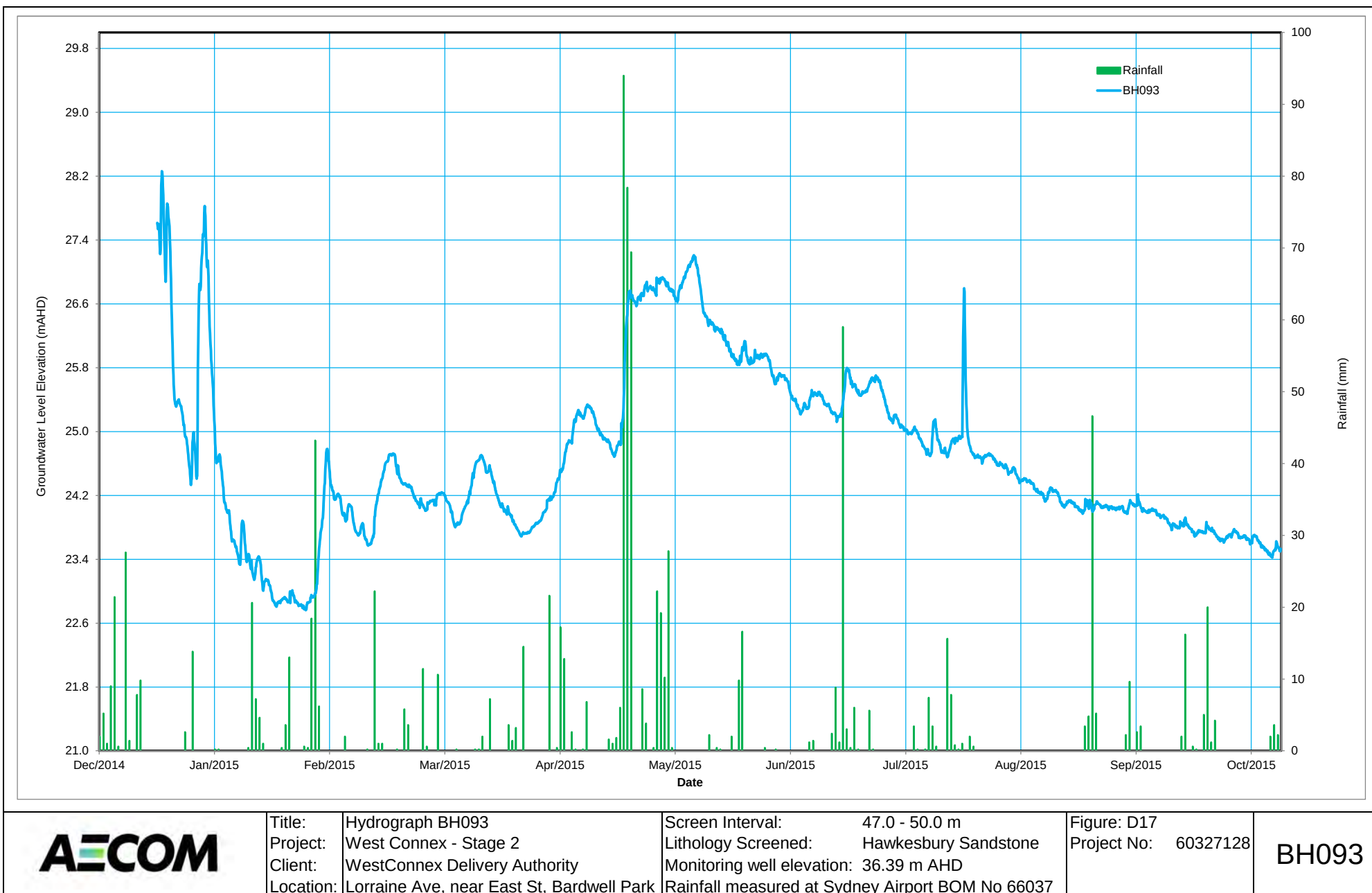


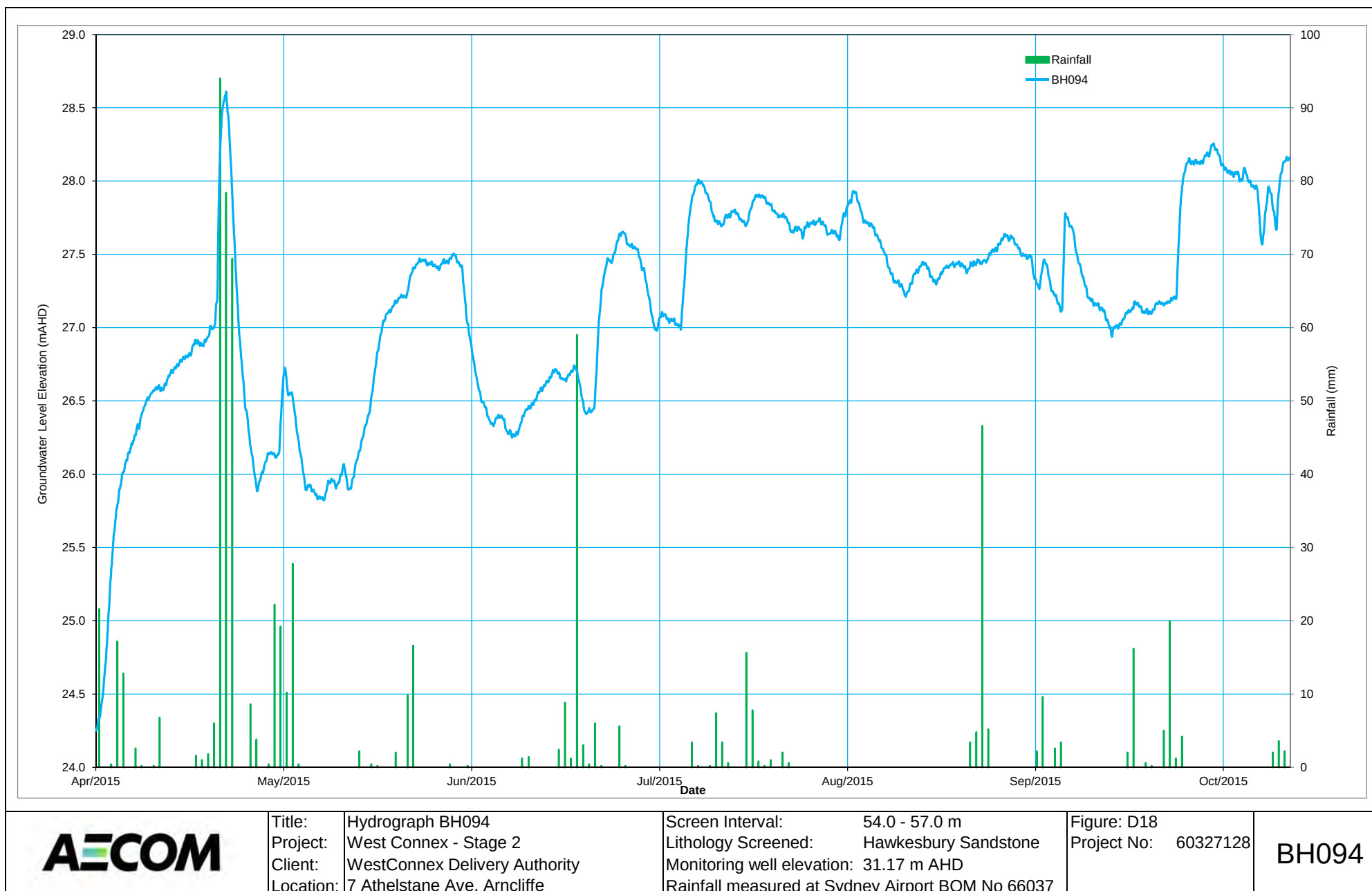
Title: Hydrograph BH088
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Cahill Park, Wolli Creek

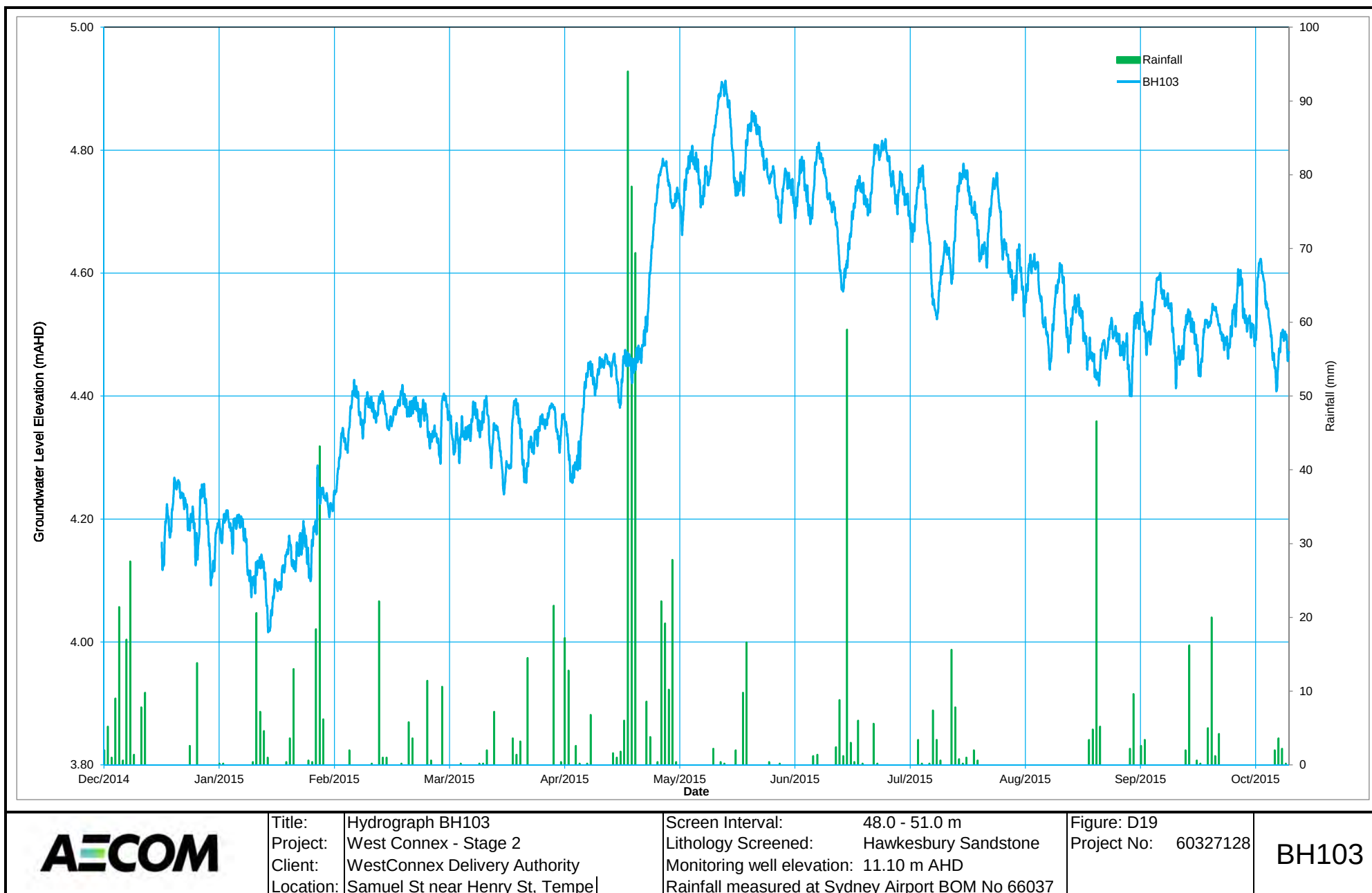
Screen Interval: 41.0 - 44.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 16.78 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

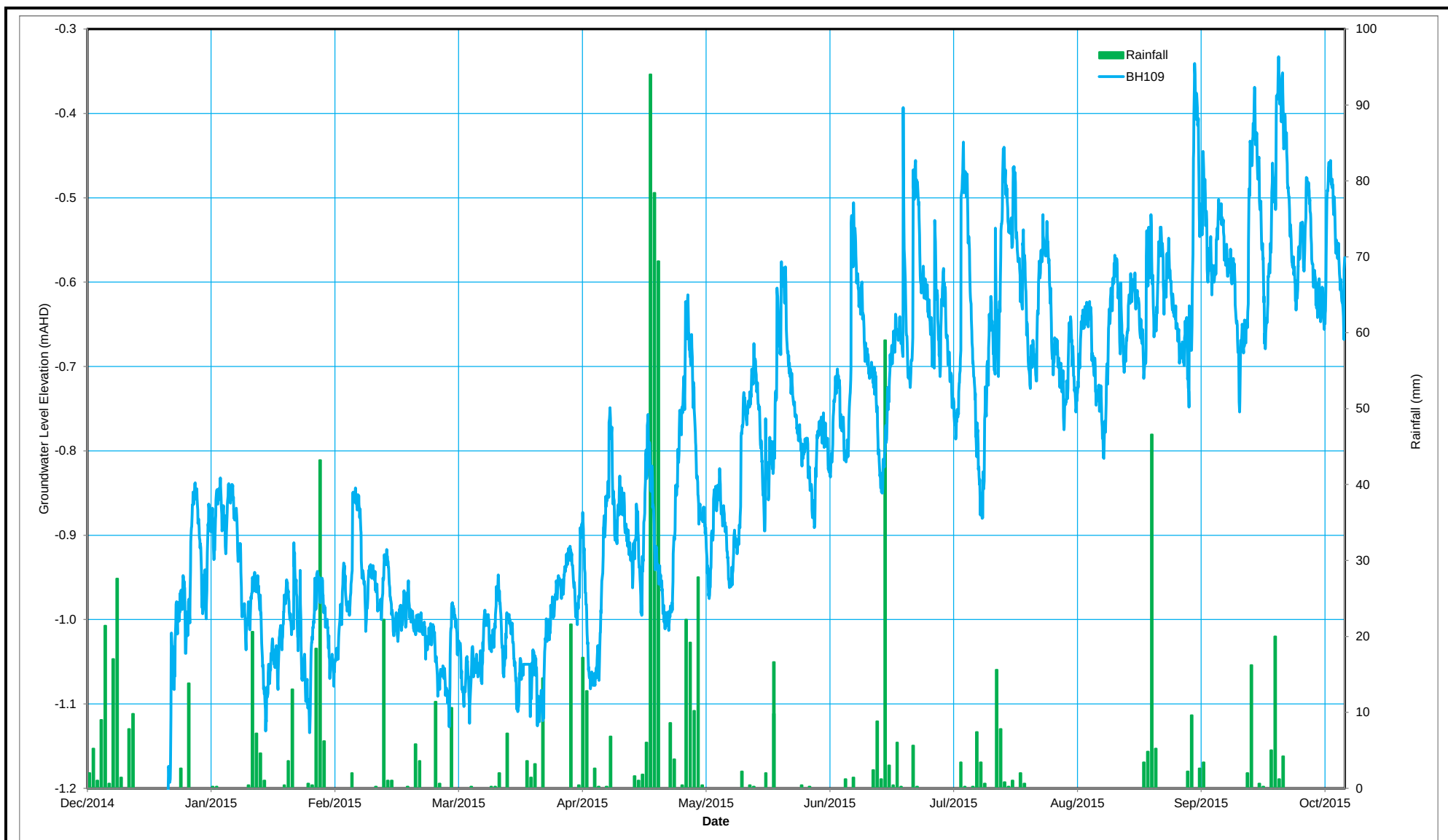
Figure: D16
 Project No: 60327128

BH088







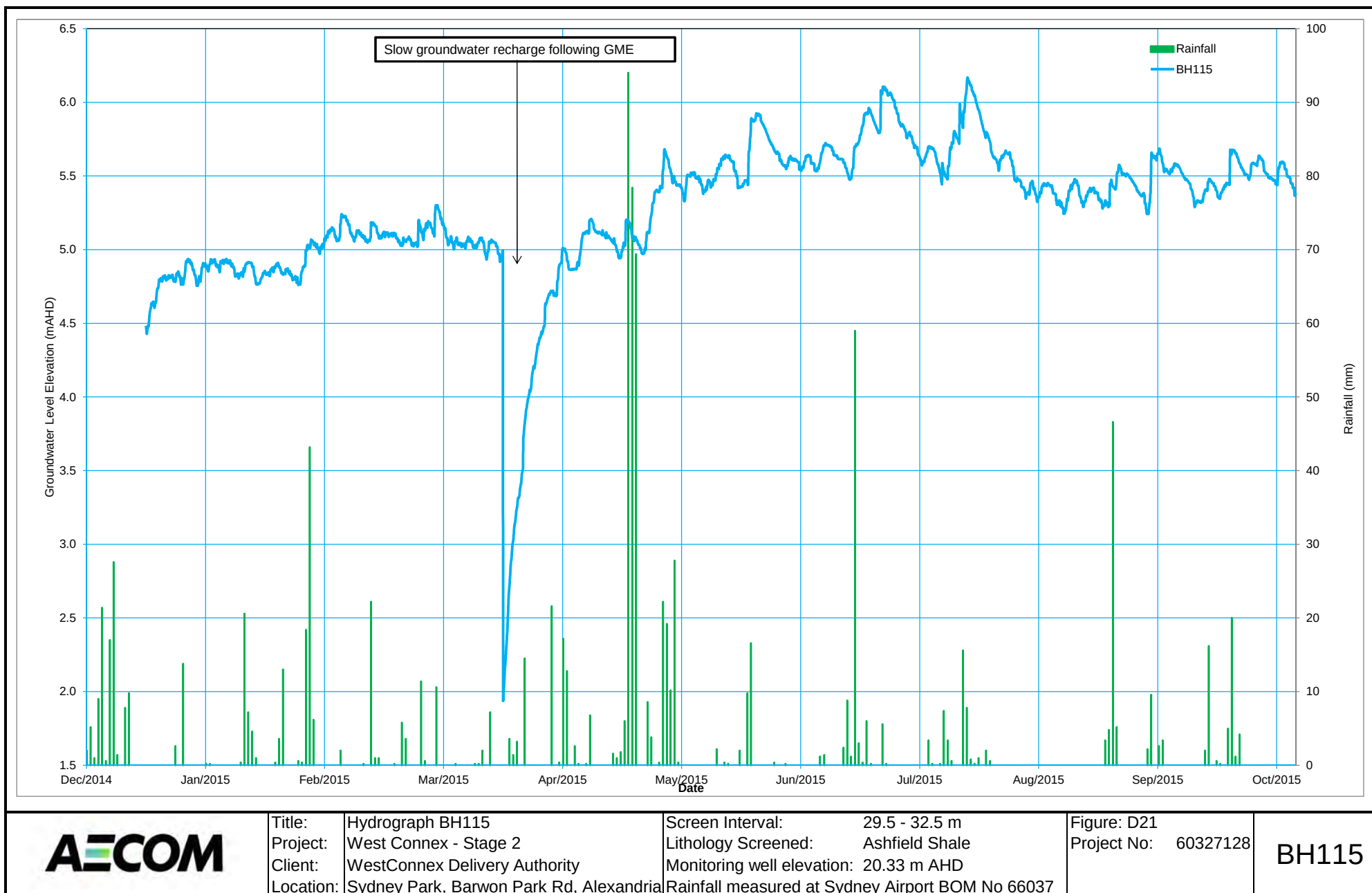


Title: Hydrograph BH109
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Industrial Estate, Canal Road, St Peters

Screen Interval: 33.0 - 36.0 m
 Lithology Screened: Rouse Hill Siltstone
 Monitoring well elevation: 6.91 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D20
 Project No: 60327128

BH109



Title: Hydrograph BH115
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Sydney Park, Barwon Park Rd, Alexandria

Screen Interval: 29.5 - 32.5 m
Lithology Screened: Ashfield Shale
Monitoring well elevation: 20.33 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D21
Project No: 60327128

BH115

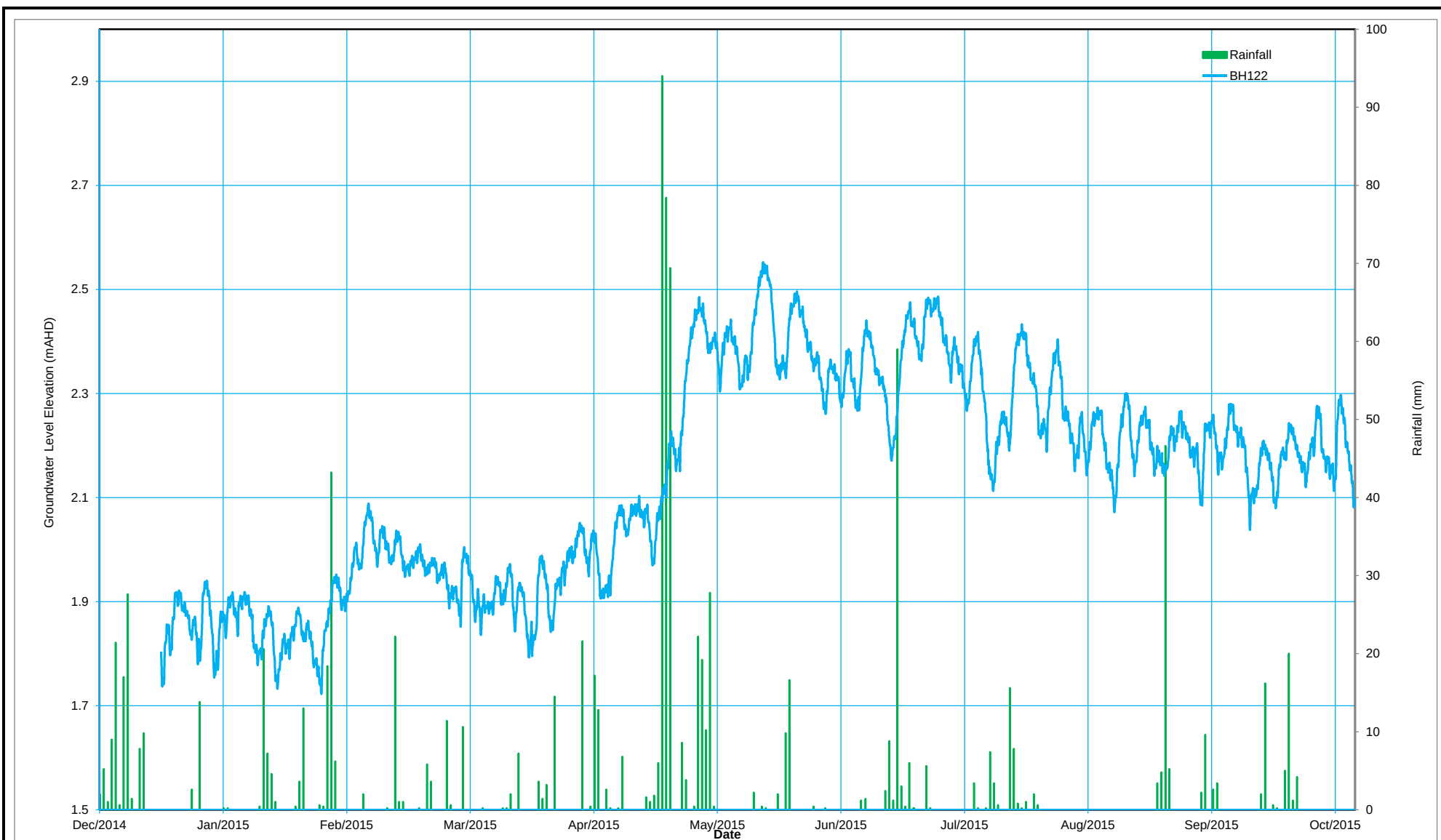


Title: Hydrograph BH120
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Edith St, St Peters

Screen Interval: 18.0 - 21.0 m
Lithology Screened: Ashfield Shale
Monitoring well elevation: 20.33 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D22
Project No: 60327128

BH120

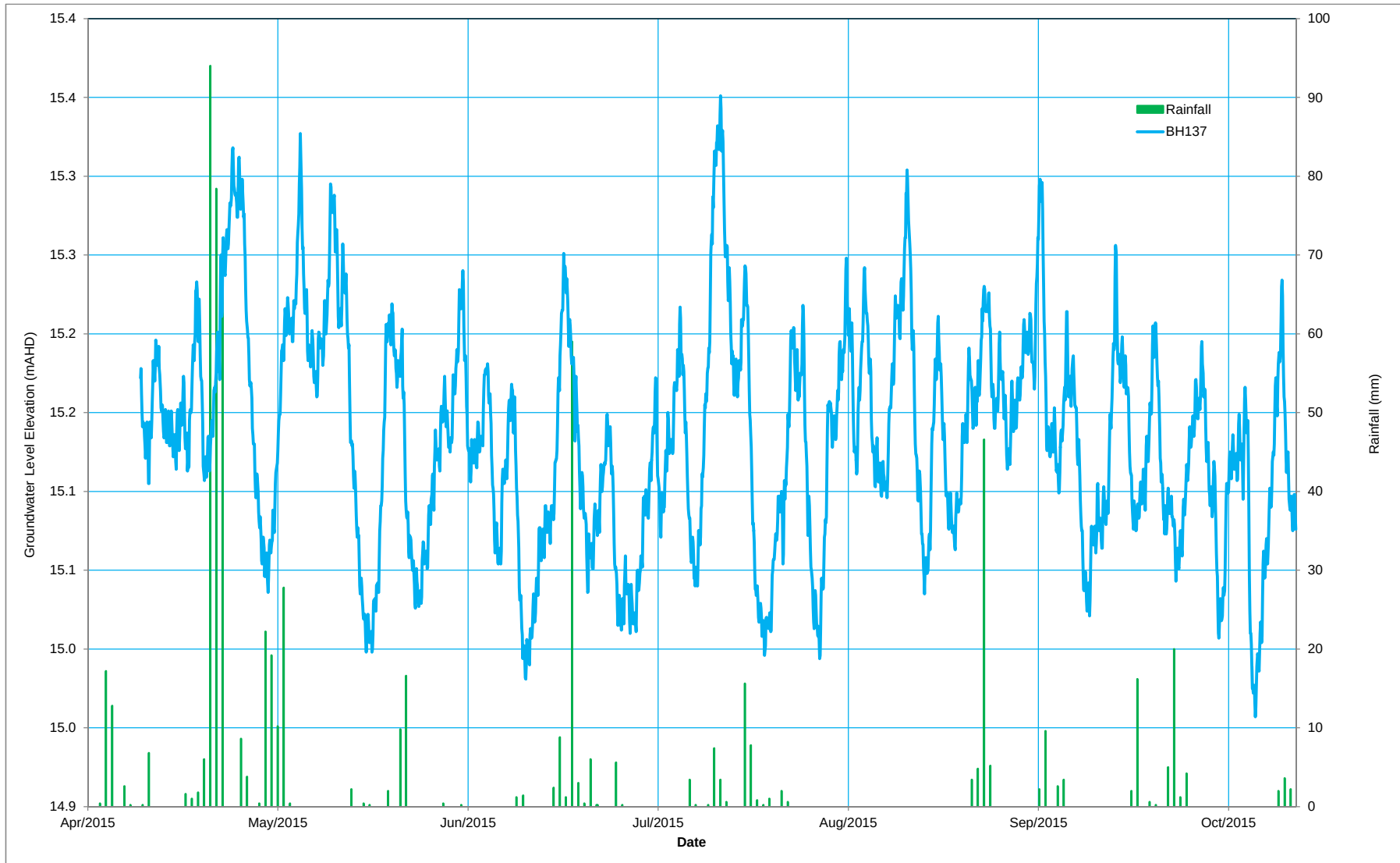


Title: Hydrograph BH122
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Campbell Road, Sydney Park, St Peters

Screen Interval: 15.0 - 18.0 m
 Lithology Screened: Ashfield Shale
 Monitoring well elevation: 5.72 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D23
 Project No: 60327128

BH122

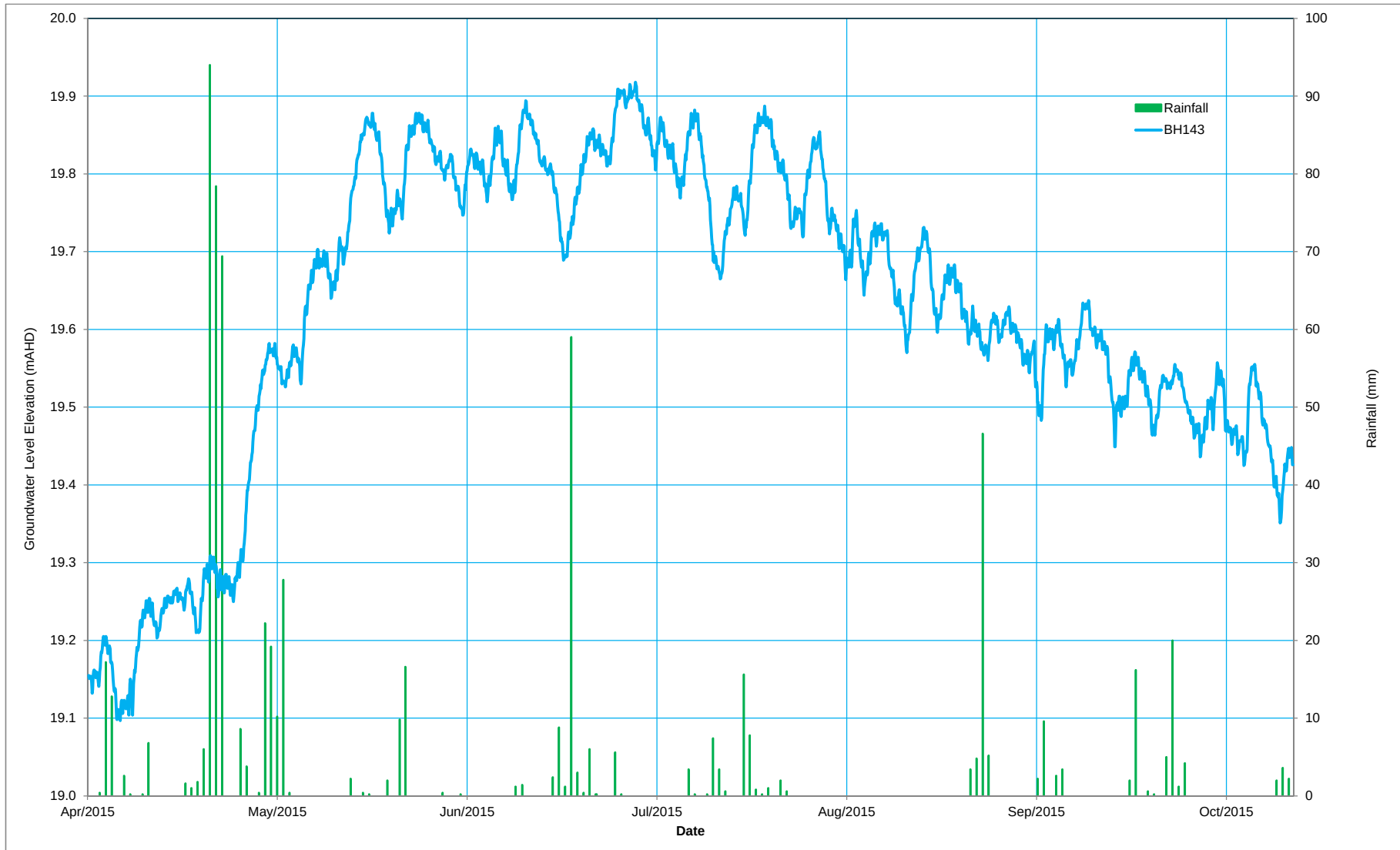


Title: Hydrograph BH137
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Bonalbo St, Kingsgrove

Screen Interval: 54.0 - 57.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 15.15 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D24
 Project No: 60327128

BH137

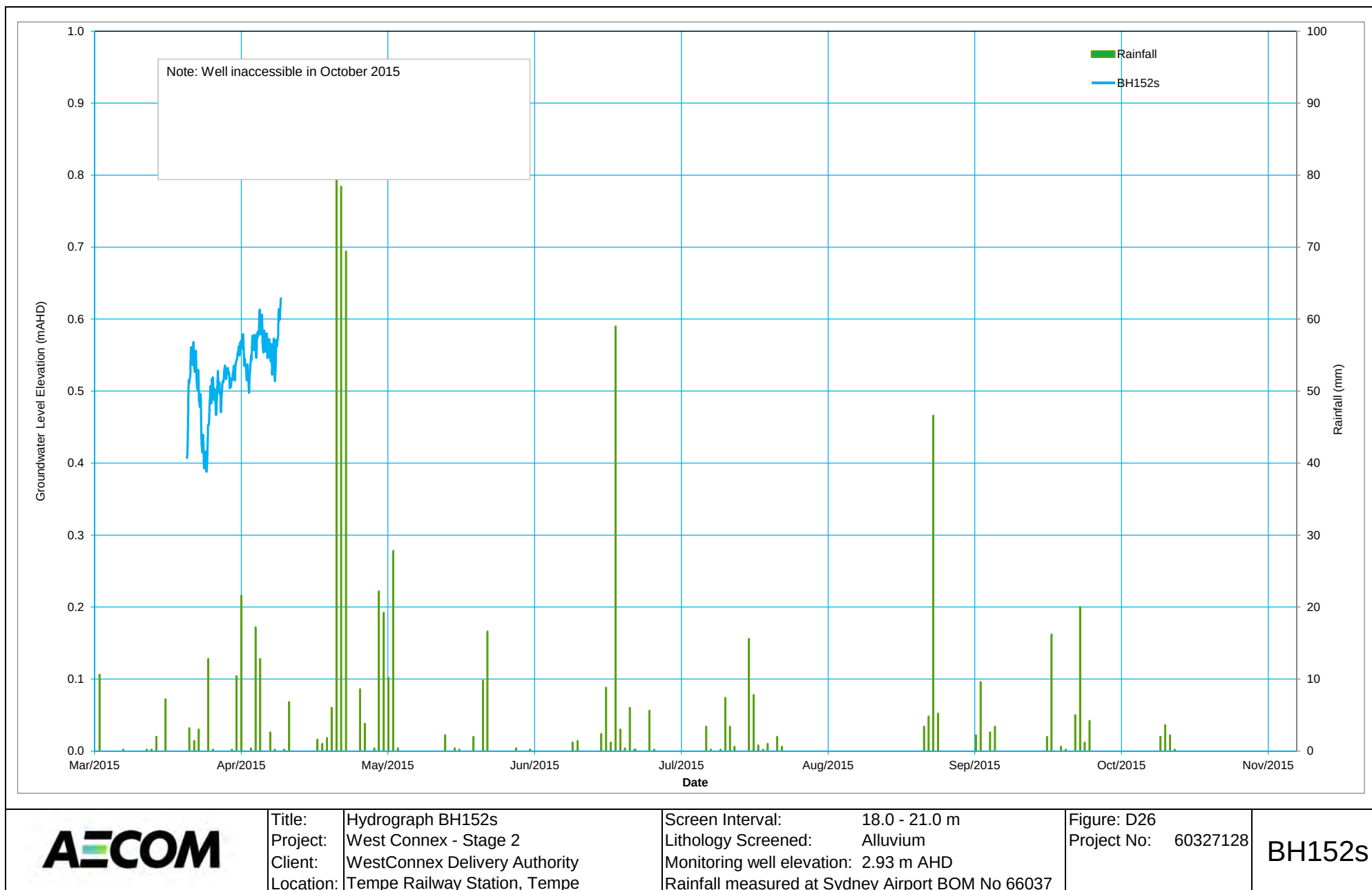


Title: Hydrograph BH143
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Silver Jubilee Park, Bardwell Park

Screen Interval: 82.0 - 85.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 40.185 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D25
 Project No: 60327128

BH143

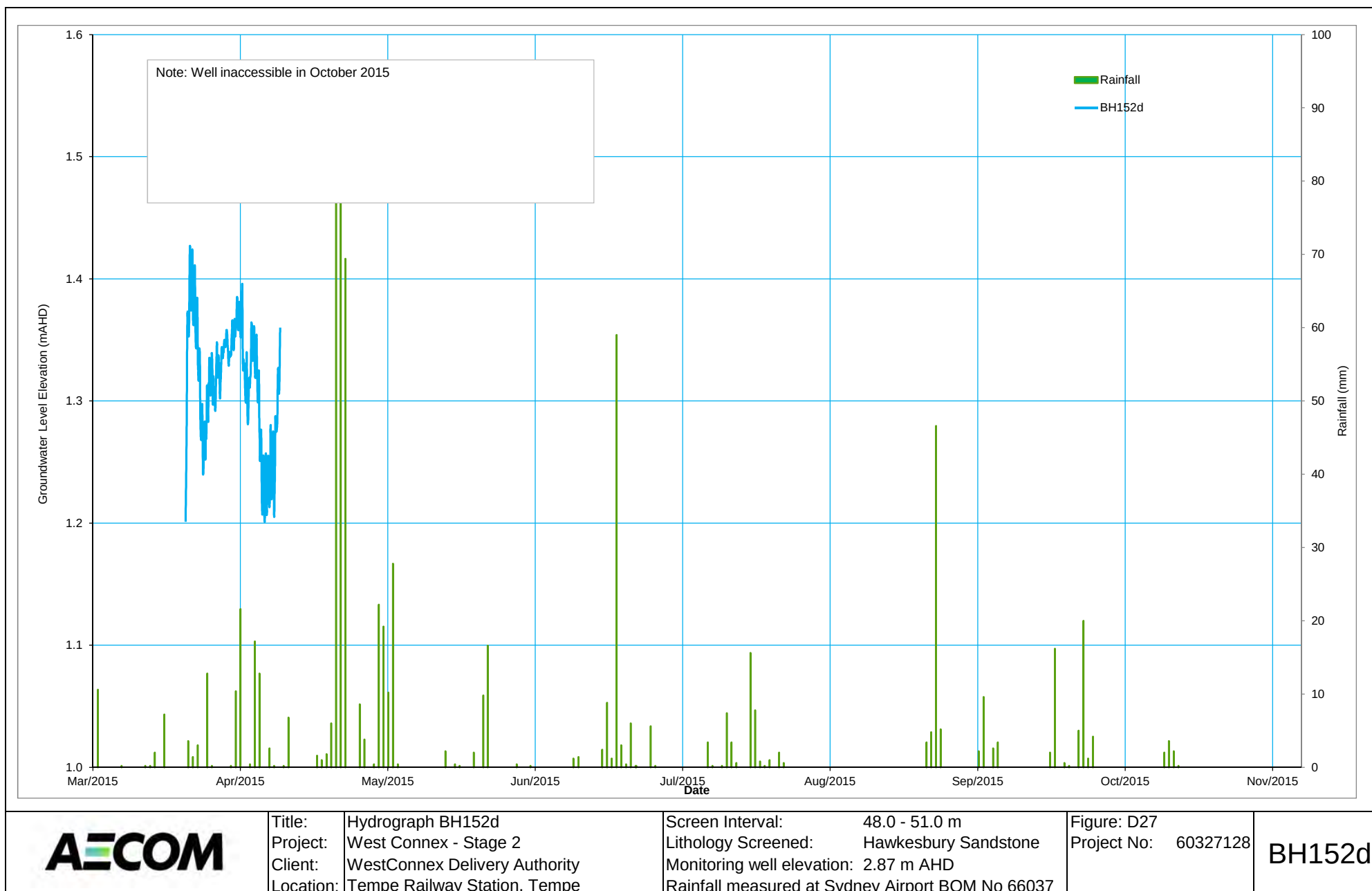


Title: Hydrograph BH152s
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Tempe Railway Station, Tempe

Screen Interval: 18.0 - 21.0 m
Lithology Screened: Alluvium
Monitoring well elevation: 2.93 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D26
Project No: 60327128

BH152s

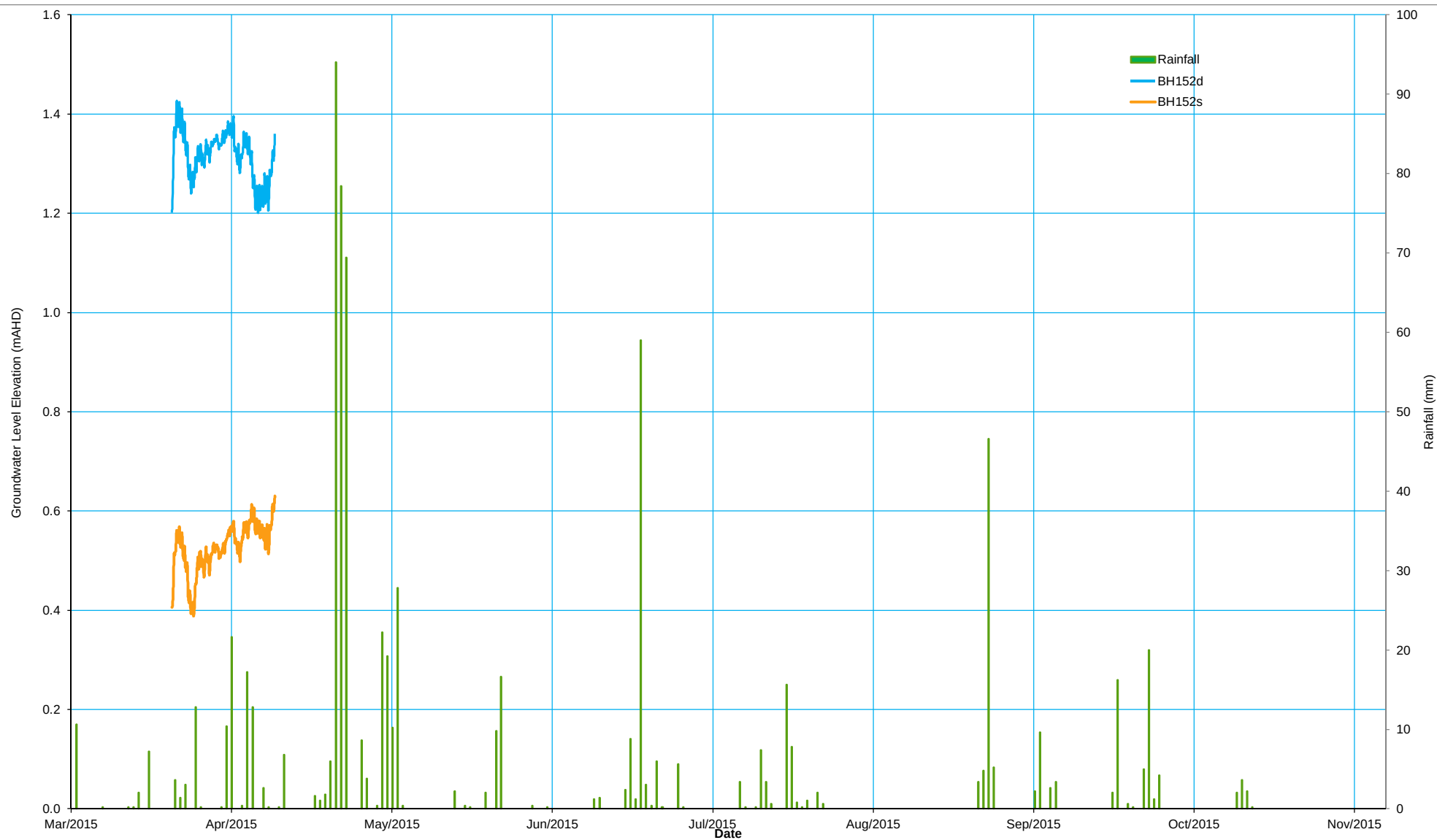


Title: Hydrograph BH152d
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Tempe Railway Station, Tempe

Screen Interval: 48.0 - 51.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 2.87 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D27
Project No: 60327128

BH152d

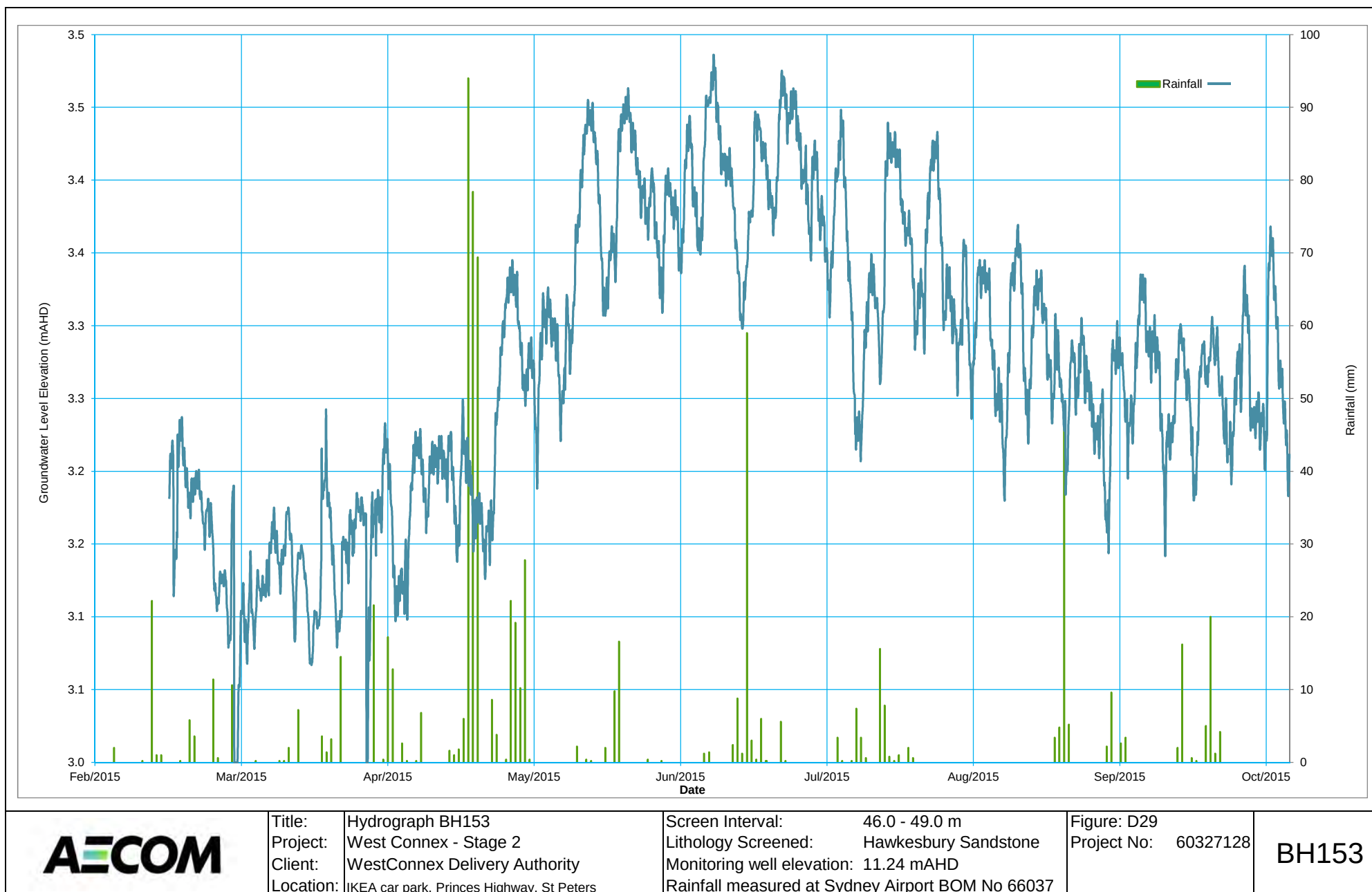


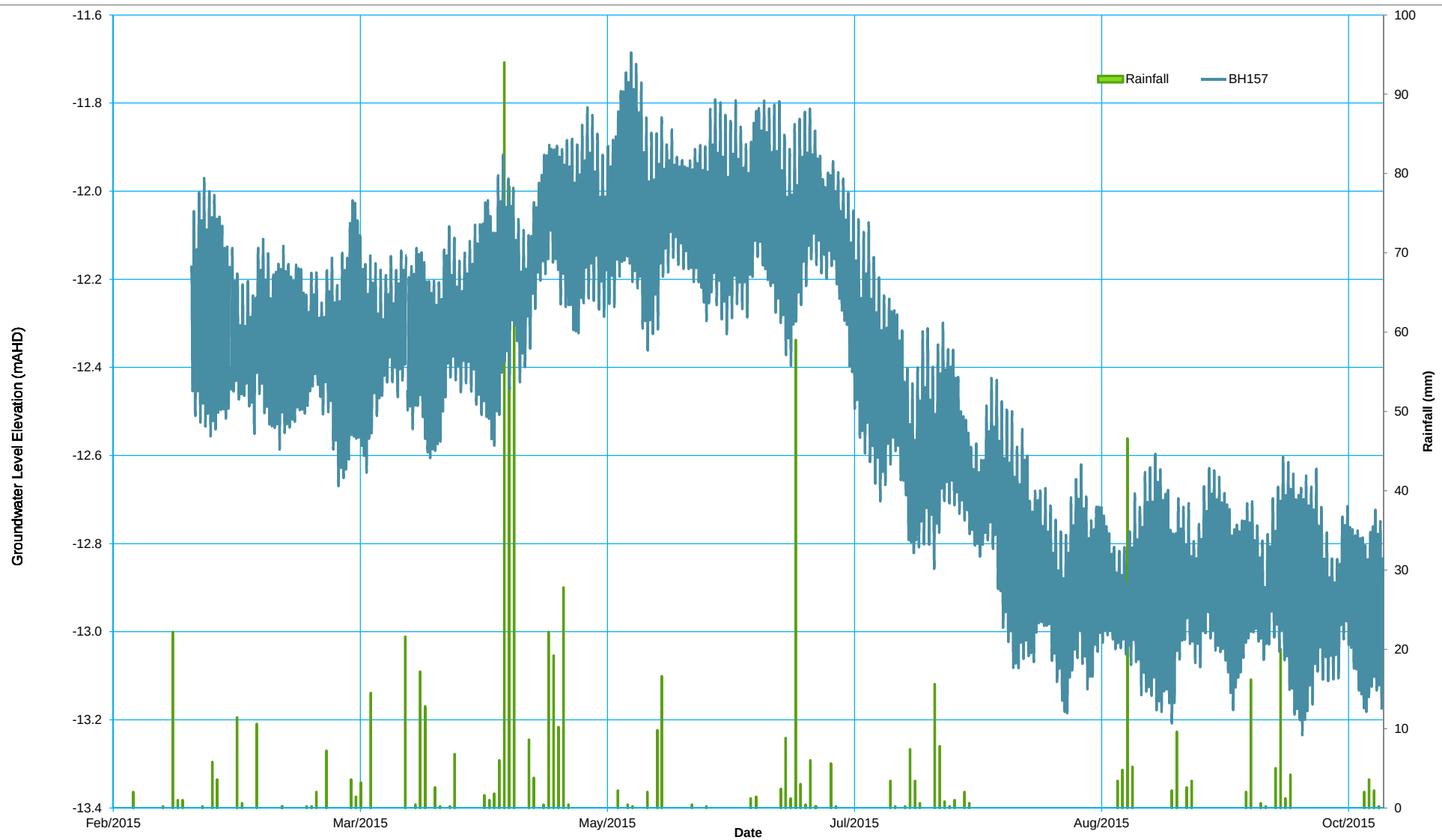
Title: Hydrograph BH152d
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: Tempe Railway Station, Tempe

Screen Interval: 48.0 - 51.0 m
 Lithology Screened: Hawkesbury Sandstone
 Monitoring well elevation: 2.87 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D28
 Project No: 60327128

BH152d





Title: Hydrograph BH157
 Project: West Connex - Stage 2
 Client: WestConnex Delivery Authority
 Location: KFC car park, 108 Princes Highway, St Peters

Screen Interval: 32.0 - 35.0 m
 Lithology Screened: Regentville Siltstone
 Monitoring well elevation: 16.82 m AHD
 Rainfall measured at Sydney Airport BOM No 66037

Figure: D30
 Project No: 60327128

BH157