

Annexure A – Site Plans

LEGEND

2017-2018 F6 Extension Stage 1

-  Borehole
-  Borehole with Groundwater Standpipe
-  Borehole with Vibrating Wire Piezometer
-  Large Diameter
-  Large Diameter Auger with Groundwater Standpipe
-  Pavement Core
-  Planned Borehole

2017 Groundwater Investigations

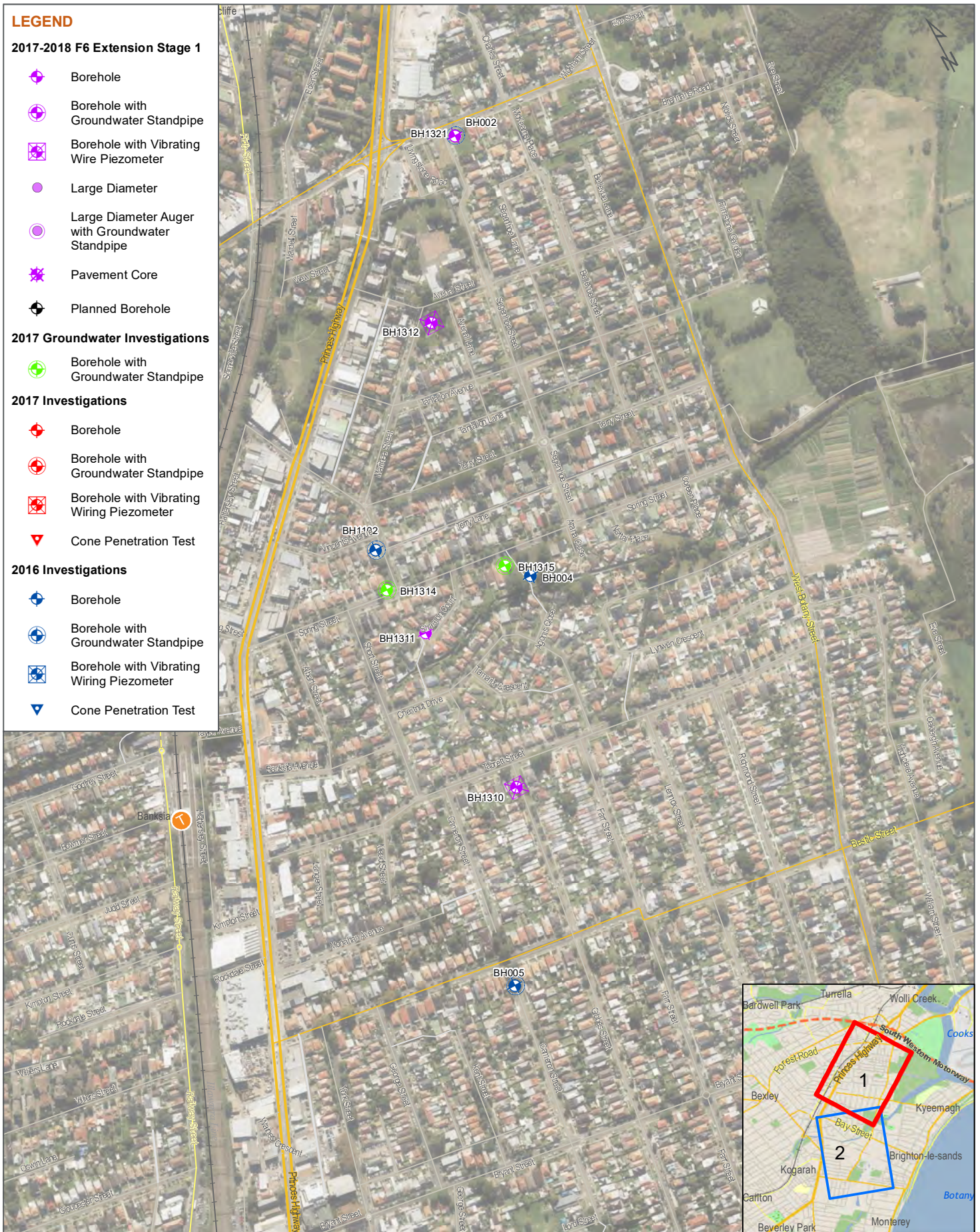
-  Borehole with Groundwater Standpipe

2017 Investigations

-  Borehole
-  Borehole with Groundwater Standpipe
-  Borehole with Vibrating Wiring Piezometer
-  Cone Penetration Test

2016 Investigations

-  Borehole
-  Borehole with Groundwater Standpipe
-  Borehole with Vibrating Wiring Piezometer
-  Cone Penetration Test



DATE 22/02/2018

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PAGE SIZE A3

COORDINATE SYSTEM
GDA 1994 MGA Zone 56

FIG NO. 1-1

FIGURE TITLE Geotechnical Investigation Plans

PROJECT NO. 30012161

PROJECT TITLE F6 Northern Section SEA
Geotechnical Investigations

CREATED BY FA13847

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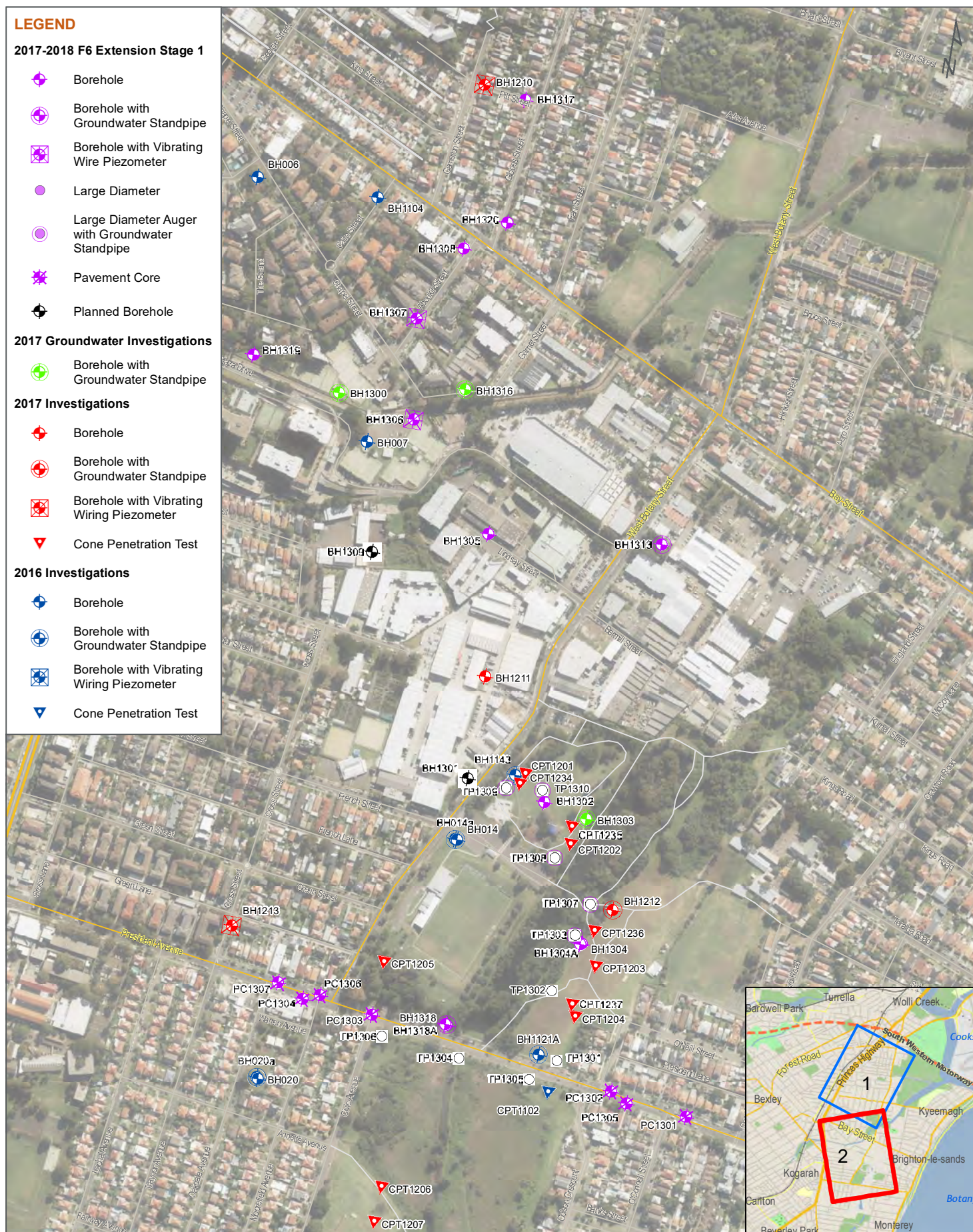
2017-2018 F6 Extension Stage 1

- ## 2017 Groundwater Investigations

- ## 2017 Investigations

- ## 2016 Investigations

-  Borehole
-  Borehole with Groundwater Standpipe
-  Borehole with Vibrating Wiring Piezometer
-  Cone Penetration Test



COORDINATE SYSTEM
GDA 1994 MGA Zone 56

FIGURE TITLE Geotechnical Investigation Plans

PROJECT TITLE F6 Northern Section SEA
Geotechnical Investigations

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LEGEND

SMEC installed locations



Boreholes with Groundwater Standpipes

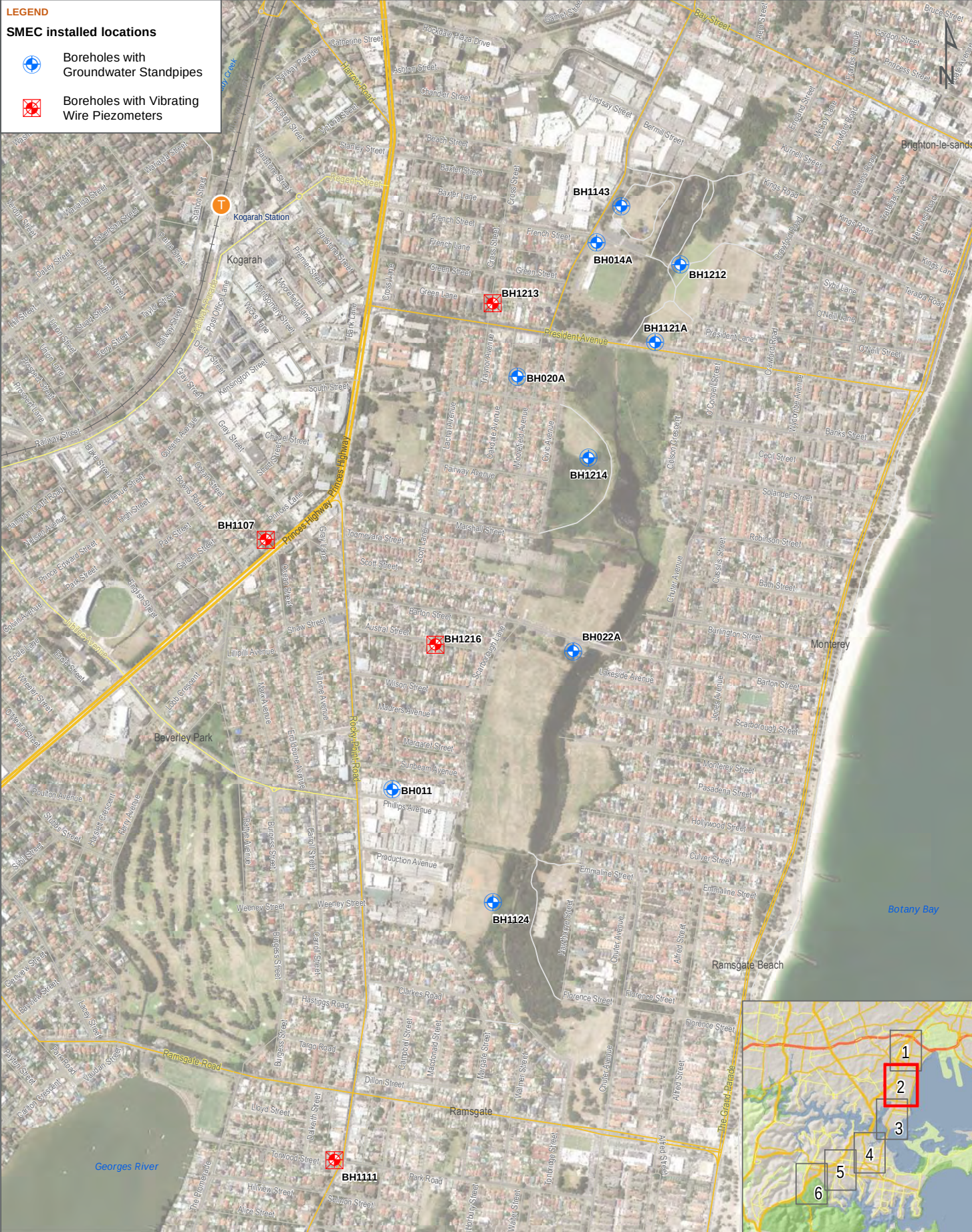


Boreholes with Vibrating Wire Piezometers

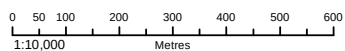
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FIG NO. 1 of 6	FIGURE TITLE Geotechnical Investigation Plans	PAGE SIZE A3	
PROJECT NO. 30012460	PROJECT TITLE F6 Extension Geotechnical Investigations	REV.NO. 01	
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Location: \IAUSYFSV003\Group\projects\30012460 - RMS Southlink GI\Data\GIS\Series\Map_Series_0001.mxd

Last updated by: FA13847 on 13/10/2017 at 9:39



DATE 13/10/2017



COORDINATE SYSTEM
GDA 1994 MGA Zone 56

FIG NO. 2 of 6

FIGURE TITLE Geotechnical Investigation Plans

PAGE SIZE A3

PROJECT NO. 30012460

PROJECT TITLE F6 Extension Geotechnical Investigations

REV.NO. 01

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COORDINATE SYSTEM
GDA 1994 MGA Zone 56

FIG NO. 3 of 6

FIGURE TITLE Geotechnical Investigation Plans

PAGE SIZE A3

PROJECT NO. 30012460

PROJECT TITLE F6 Extension Geotechnical Investigations

REV.NO. 01

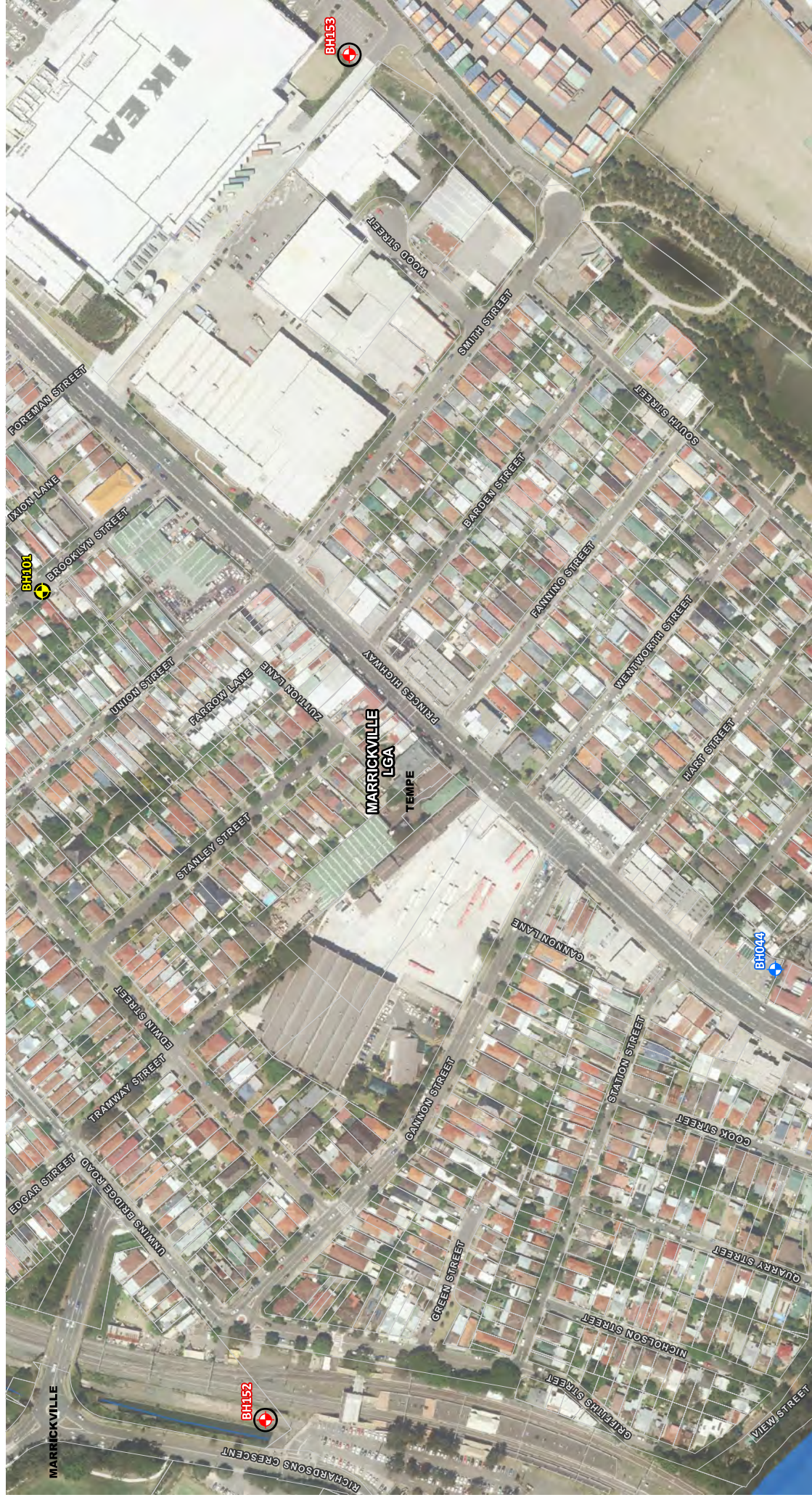
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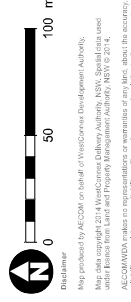
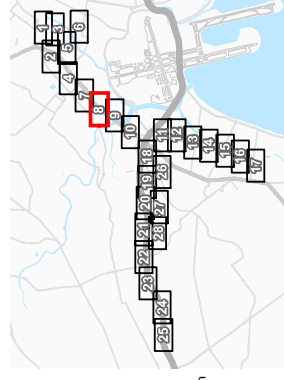
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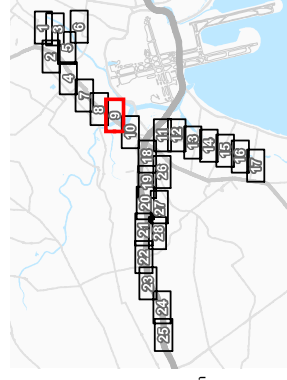
- Waterbody
Watercourse
Local Government Area



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6	8 of 28	GDA 1994 MGA Zone S6						
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PROJECT	WESTCONNEX STAGE 2 TA							
CUSTOMER	WESTCONNEX DELIVERY AUTHORITY							
DRAWN	SC	PROJECT #	MAP #	REV	Project			
CHECK		128			DATE			
					19/03/2015			G094 01 60327128



KEY

-  Waterbody
 Watercourse
 Local Government Area
 Package 1 - Borehole
 Package 2 - Borehole
 Package 3 - Borehole
 Package 4 - Borehole
 Package 1 - Borehole with Monitoring Well
 Package 2 - Borehole with Monitoring Well
 Package 3 - Borehole with Monitoring Well
 Package 4 - Borehole with Monitoring Well

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Building for the future



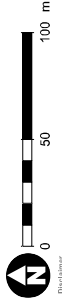
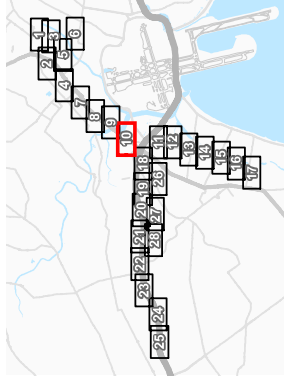
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CUSTOMER	WESTCONNEX DELIVERY AUTHORITY		
DRAWN	SC	PROJECT #	PROJECT
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CHECK		DATE	
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- KEY**
- Waterbody
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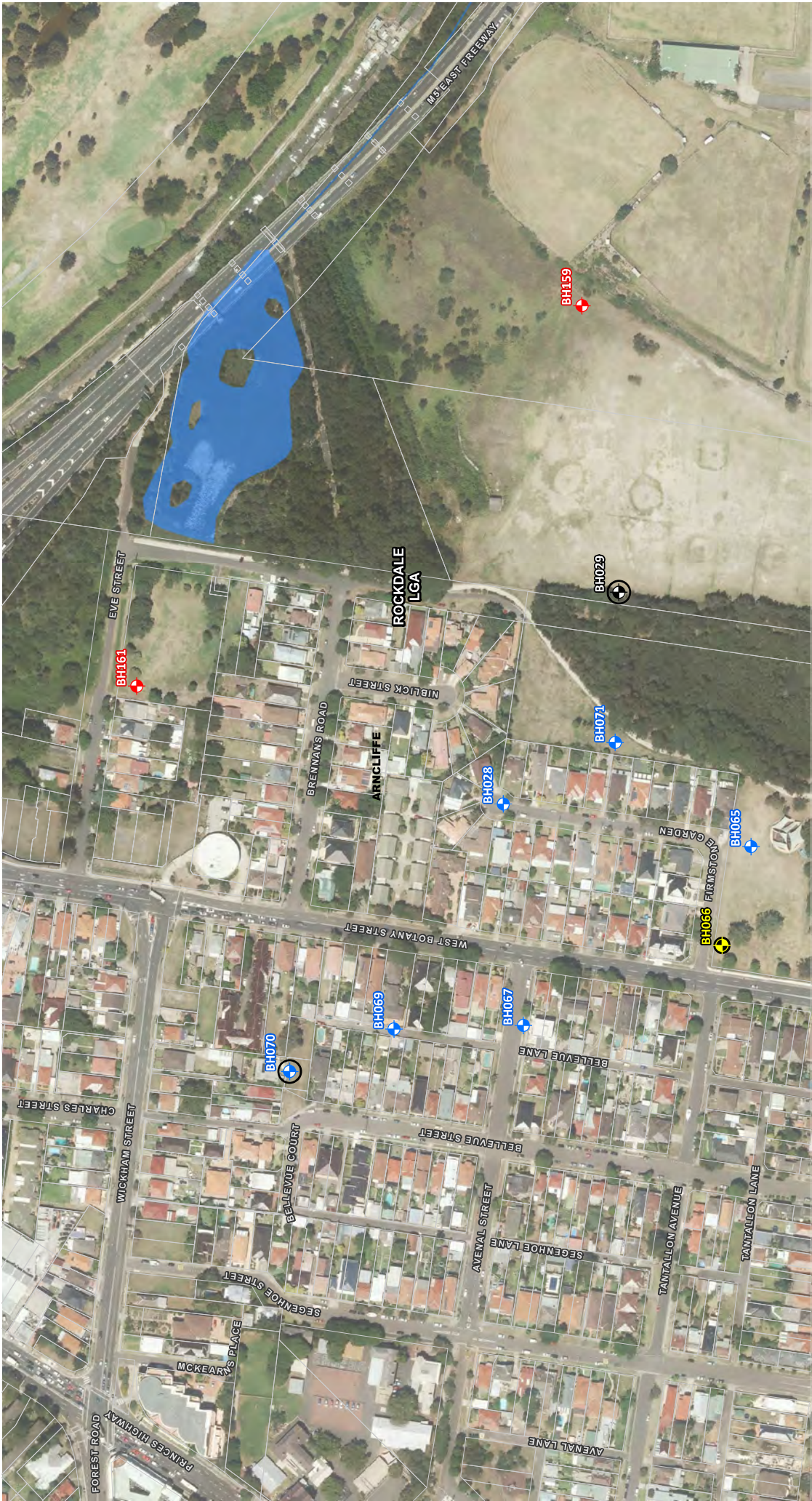


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DRAWN	SC	CHECK	DATE
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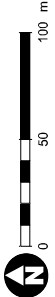
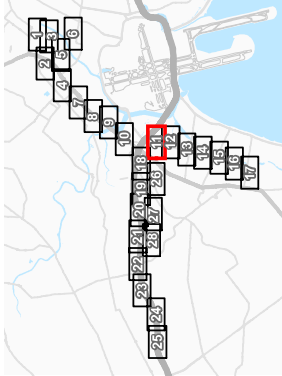


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KEY

- Package 1 - Borehole Monitoring Well
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- Package 4 - Borehole Monitoring Well
- Watercourse
- Waterbody
- Local Government Area

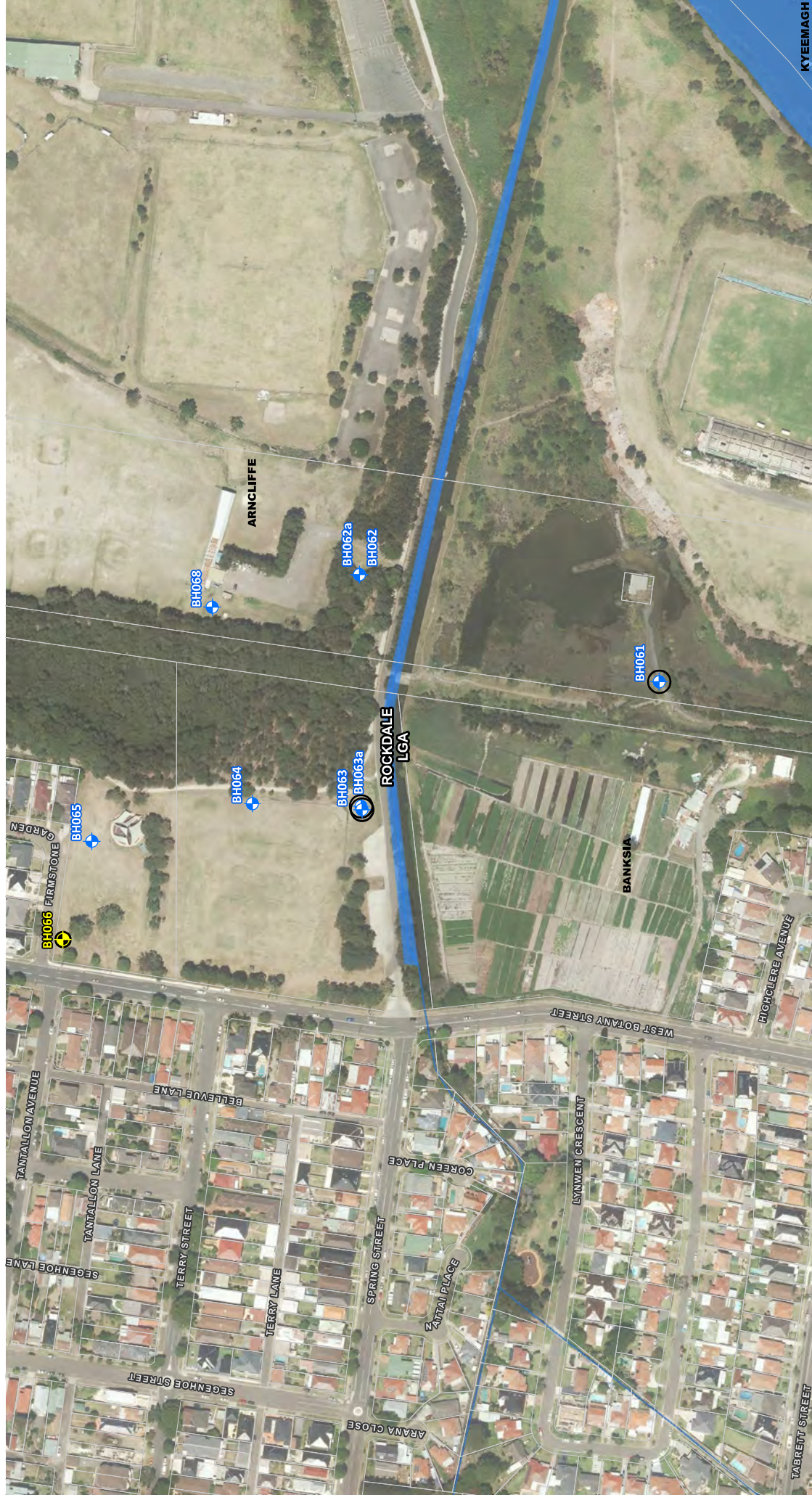
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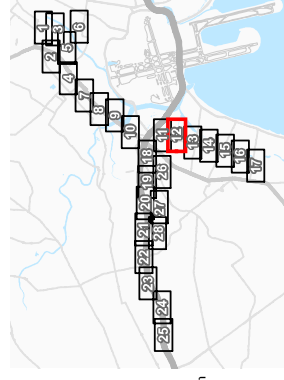
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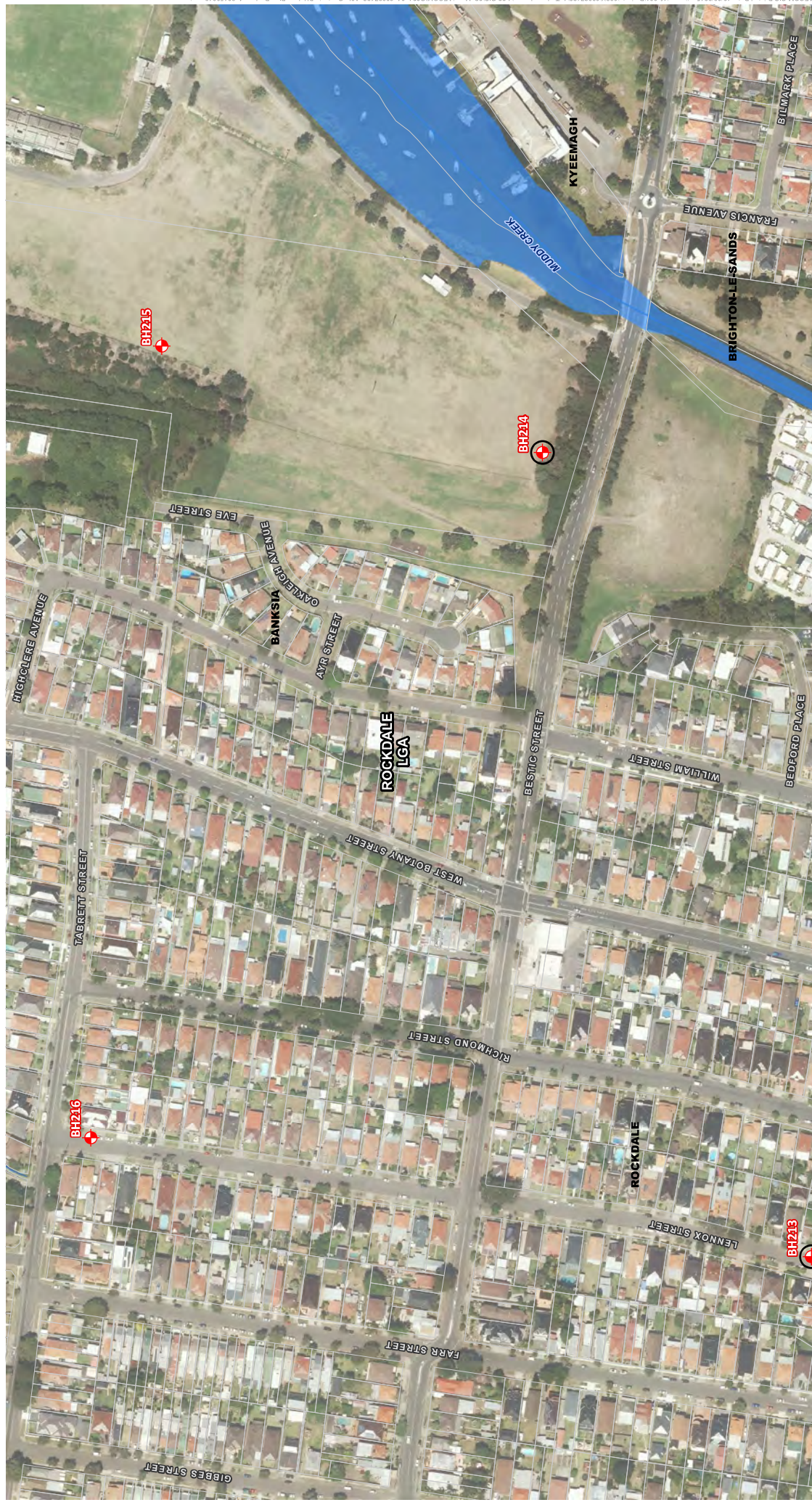


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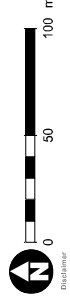
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- KEY**
-  Waterbody
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 -  Package 1 - Borehole
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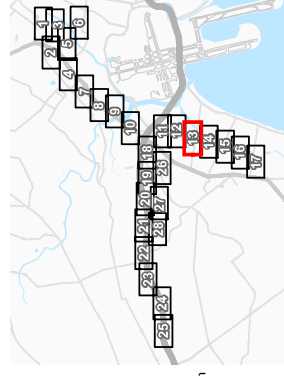


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11 of 28 TITLE WestConnex Motorway Geotechnical Borehole Location Plan for Package PROJECT WESTCONNEX STAGE 2 TA		CLIENT WESTCONNEX DELIVERY AUTHORITY PROJECT # SC 60327128 DRAWN SC 60327128 CHECK DATE 19/03/2015		PROJECT MAP # REV Project G094 01 60327128
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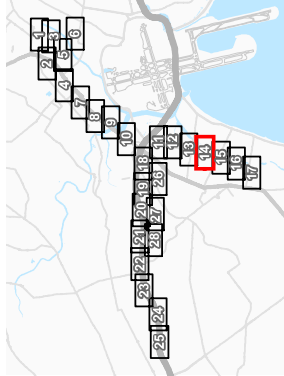
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DATE	14 of 28	COORDINATE SYSTEM	GDA 1994 MGA Zone 56
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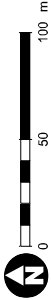


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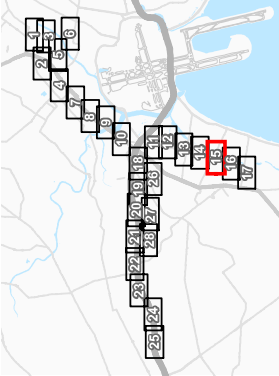
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DRAWN: SC
CHECK: 19/03/2015

PROJECT: WESTCONNEX STAGE 2 TA
CLIENT: WESTCONNEX DELIVERY AUTHORITY
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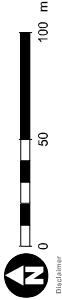
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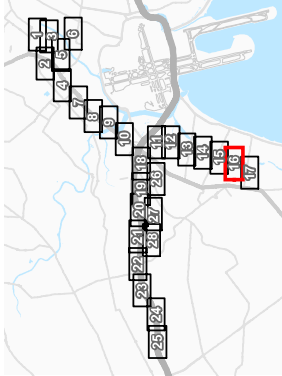
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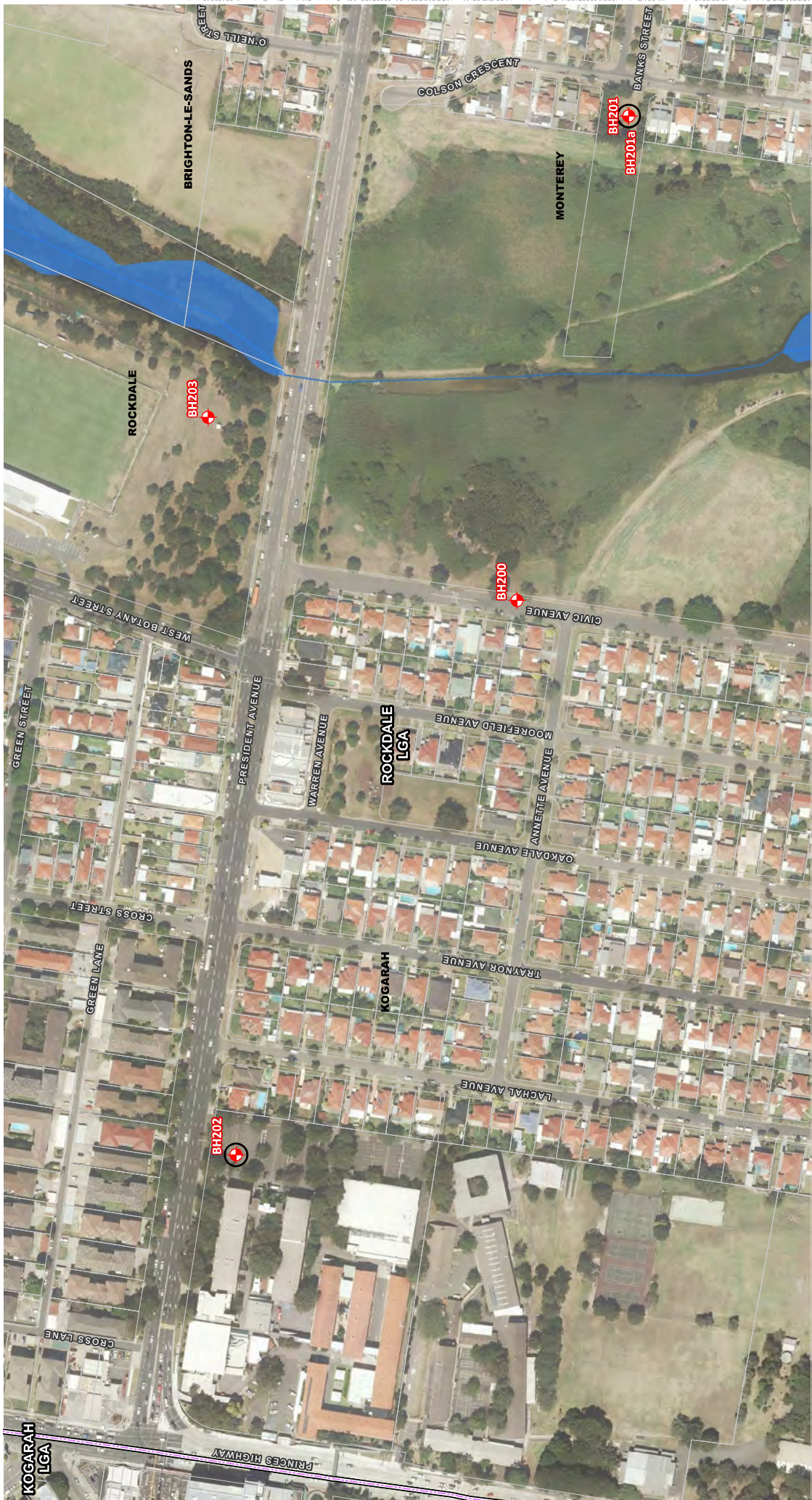
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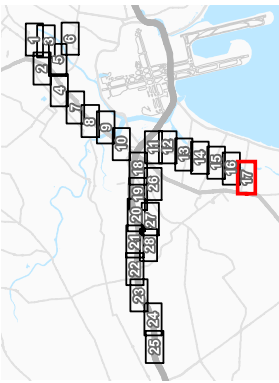
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DRAWN	SC	PROJECT #	MAP #
CHECK	DATE	REV	PROJECT
	19/03/2015		G094 01 60327128



- KEY**
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 - Package 1 - Borehole Monitoring Well
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 - Package 4 - Borehole Monitoring Well



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Annexure B – Summary Tables

Summary Table B1	Groundwater Monitoring Well construction details
Summary Table B2	Groundwater Quality Monitoring – Field Parameters
Summary Table B3	Groundwater Quality Monitoring – Inorganic Chemistry
Summary Table B4	Groundwater Quality Monitoring – Metals Analytical Results
Summary Table B5	Groundwater Aggressivity to concrete
Summary Table B6	Groundwater Aggressivity to steel
Summary Table B7	Packer Test Results (RMS 2015)
Summary Table B8	Packer Test Results (SMEC 2017)

Summary Table B1
F6 Extension

Groundwater Monitoring Well construction details

Monitoring Well	Location	Target Depth (m)	stickup	Ground level		RL toc ¹ mAHd	Date Completed	Co-ordinates		Screen Interval (m) Sensor Level ^{^^}	Screen Interval (m)	measured SWL		Lithology Screened	
				mAHd	mAHd			Easting	Northing			date	mbtoc		mAHd
BH1300*	Rockdale Plaza drive - Rockdale Tennis Club, Rockdale	17.5	0.160	2.53	2.37	8-Nov-17	328264.80	6241003.70	13-16		12-Dec-17	1.46	0.91	clay and siltstone	
BH1303*	West Botany Street, Rockdale	36.0	0.120	5.02	4.90	25-Oct-17	328703.90	6240469.40	10-13	16-19	12-Dec-17	3.87	1.03	sand and clay	
BH1314*	Spring St, Arncliffe	25.2	0.160	7.95	7.79	01-Nov-17	3285545.60	6242493.90	19-25		13-Dec-17	3.04	4.75	sand	
BH1315*	Spring St, Beehag Reserve, Arncliffe	31.6	0.100	3.88	3.78	27-Oct-17	328708.30	6242446.30	25.6-31.6		13-Dec-17	1.06	2.72	sandy clay and sandstone	
BH1316*	Garnet St, Rockdale	34.0	0.120	2.22	2.10	06-Nov-17	328438.80	6241036.20	28-31		12-Dec-17	0.59	1.51	clayey sand and sandstone	
BH2	Brantwood Street, Sans Souci	50.0	0.095	3.01	3.11	16-Aug-16	327540.96	6236281.15	41-50		06-Sep-17	2.02	0.90	sandstone	
BH002	Wickham St, Arncliffe	70.0	0.150	21.18	21.33	19-Jul-16	328929.74	6243012.52	60-70		05-Sep-17	29.61	-8.58	sandstone	
BH005	Cameron St, Rockdale	70.2	0.075	25.68	25.76	12-Aug-16	328444.11	6241919.01	56.3 - 68.7		05-Sep-17	18.56	7.05	sandstone	
BH011	Phillips Road, Kogarah	50.3	0.085	6.39	6.48	03-Aug-16	327956.45	6238882.62	44.3-50.3		05-Sep-17	4.50	1.81	sandstone	
BH014a	French St/West Botany St, Kogarah	10.2	0.075	4.71	4.79	30-Aug-16	328527.22	6240411.64	7-10		05-Sep-17	3.14	1.49	sand and clay	
BH015	Evans St, Sans Souci	50.26	0.070	5.90	5.97	07-Sep-16	327482.58	6236929.64	44-50		06-Sep-17	2.57	3.26	sandstone	
BH020a	Oakdale Ave Kogarah	6.5	0.075	8.49	8.57	05-Sep-16	328306.61	6240036.92	3.5-6.5		04-Sep-17	3.85	4.57	sandy clay	
BH021	Bado-berong Creek, Napoleon St, Sandringham	58.6	0.090	2.36	2.45	10-Aug-16	327870.83	6236122.66	3-6		06-Sep-17	1.65	0.62	sand	
BH022a	Barton Street, Kogarah	22.5	0.090	1.58	1.67	05-Sep-16	328462.14	6239268.32	7-10		07-Sep-17	0.96	0.53	sand	
BH023	Sandringham St, Sans Souci	30.0	0.065	1.66	1.73	30-Jul-16	328026.68	6237266.86	24-30		06-Sep-17	0.83	0.77	sandstone	
BH1100	Kyle Street, Arncliffe	78.0	0.050	18.80	18.85	03-Sep-16	329023.59	6243228.39	75-78		05-Sep-17	46.21	-27.46	sandstone	
BH1102	Maineae St, Arncliffe	74.0	0.070	8.76	8.83	08-Sep-16	328558.66	6242551.02	74-74		05-Sep-17	2.57	6.12	sandstone	
BH1112a	Bonanza, Sans Souci	9.0	0.095	2.75	2.85	23-Aug-16	327738.04	6237169.70	6-9		06-Sep-17	1.23	1.43	clay/sandstone	
BH1121a	President Avenue, Kogarah	26.1	0.075	2.07	2.15	12-Jul-16	328691.49	6240132.49	7-10		04-Sep-17	0.95	1.05	sand and clay	
BH1124	Phil Austin Baseball Field, Monterey	21.0	0.070	5.17	5.24	25-Aug-16	328238.07	6238567.14	7.2-10.2		14-Sep-17	4.47	0.63	sand and clay	
BH1129	Bado-berong Creek, Napoleon St, Sandringham	21.0	0.060	1.48	1.54	17-Aug-16	327998.14	6236721.59	2-5		14-Sep-17	0.86	0.56	sand	
BH1129a	Bado-berong Creek, Napoleon St, Sandringham	9.0	0.065	1.50	1.57	19-Aug-16	327998.31	62366719.30	5.7-8.7		14-Sep-17	0.96	0.47	sandstone	
BH1130	Fraters Avenue, Sans Souci	21.6	0.060	3.72	3.78	08-Aug-16	327219.66	6235801.76	15.6-21.6		06-Sep-17	2.55	1.11	sandstone	
BH1131	Sans Souci Park, Sans Souci	20.0	0.070	4.25	4.32	27-Aug-16	327132.28	6235675.18	7-10		06-Sep-17	3.84	0.34	sandstone	
BH1143	West Botany Street, Sylvania Waters	50.1	0.085	4.58	4.67	19-Sep-16	328596.54	6240513.98	15.4-18.4		05-Sep-17	3.19	1.31	sand and clay	
BH1212	Memorial Fields, O'Neil St, Brighton-le Sands	32.9	0.070		4.43	16-May-17	328761.50	6240349.50	13-16		04-Sep-17	3.24	1.19	sand	
BH1214	Sandringham Park North, Civic Avenue, Kogarah	40.0	0.570		1.97	12-May-17	328505.40	6239810.20	10.5-13.5		04-Sep-17	1.06	0.91	sand/sandstone	
BH1227	Kendall Street Reserve, Sans Souci	50.2	0.060		2.48	09-May-17	327291.30	6236377.70	7.5-10.5		06-Sep-17	1.89	0.58	alluvium	
BH1229	Sans Souci Park, Sans Souci	25.0	0.595		7.09	03-May-17	327069.50	6235841.70	8.8-11.8		06-Sep-17	0.86	0.56	sandstone	
BH1301	###	###	###	###	###	###	###	###	###		###	###	###	###	
BH1306##	Rockdale Tennis Club, Rockdale				2.60	08-Feb-18	328373.94	6240983.76	-66.40 ^{^^}						
BH1307##	Aboukir St, Rockdale				3.08	23-Jan-18	328355.20	6241124.30	-66.92 ^{^^}						
BH1310##	Gibbes St, Rockdale				11.72	13-Dec-17	328577.10	6242164.40	-88.28 ^{^^}						
BH1312##	Maineae Park, Arncliffe				23.04	19-Jan-18	328777.00	6242796.00	-95.96 ^{^^}						
BH1313	RMS Rockdale Depot, 400 West Botany St, Rockdale	121.2	0.00	2.90	2.90	19-Dec-17	328746.20	6240866.80	23.1 - 29.1		21-Dec-17	1.40	1.50	alluvium	
BH1318	Bicentennial Park, President Ave, Rockdale	71.0	0.00	2.38	2.38	11-Jan-18	328557.60	6240152.70	5.8 - 8.8		21-Dec-17	2.06	0.32	alluvium	
TP1303	Memorial Fields, Rockdale	5.45	###	4.21	###	19-Dec-17	328714.90	6240306.60	###		21-Dec-17	2.89	1.32	?fill/alluvium	
TP1307	Memorial Fields, Rockdale	5.45	###	3.28	###	19-Dec-17	328729.30	6240352.00	###		21-Dec-17	2.04	1.24	?fill/alluvium	
TP1308	Rockdale Bicentennial Park, Rockdale	8.45	###	5.47	###	18-Dec-17	328669.10	6240408.60	###		21-Dec-17	2.67	2.80	?fill/alluvium	
TP1309	Rockdale Bicentennial Park, Rockdale	5.45	###	4.72	###	18-Dec-17	328585.70	6240494.10	###		21-Dec-17	3.32	1.40	?fill/alluvium	
TP1310	Rockdale Bicentennial Park, Rockdale	6.45	###	5.02	###	19-Dec-17	328637.00	6240499.80	###		21-Dec-17	2.46	2.56	?fill/alluvium	
WCX-BH18 ^{^^}	Moore St, on Grass, Bardwell park	54.0			34.84	17-Nov-14	326717.03	6243421.81	51-54		19-Oct-15	37.65	-2.81	Hawkesbury Sandstone	
WCX-BH024 ^{^^}	off The Glen Rd, in Bardwell Valley Golf Course, Bardwell Valley	29.0			8.17	25-Nov-14	327221.88	6243305.92	26-29		19-Oct-15	9.21	-1.04	Hawkesbury Sandstone	
WCXBH025 ^{^^}	Queen St, Arncliff	58.0			23.85	03-Dec-14	328636.69	6243271.02	55-58		21-Jan-15	29.40	-5.55	Hawkesbury Sandstone	
WCX-BH029 ^{^^}	Catillon Park Driving Range, near Eve St, Arncliff	36.0			4.28	17-Oct-14	329349.64	6242708.81	33-36		19-Oct-15	2.33	1.95	Hawkesbury Sandstone	
WCX-BH036 ^{^^}	Cahill Park, Princes Highway, Wollli Creek	63.0			1.58	23-Oct-14	329402.60	6243808.71	60-63		19-Oct-15	2.80	-1.22	Hawkesbury Sandstone	

Summary Table B1
F6 Extension
Groundwater Monitoring Well construction details

Monitoring Well	Location	Target Depth (m)	stickup	Ground level mAHD	RL toc [^] mAHD	Date Completed	Co-ordinates		Screen Interval (m) Sensor Level ^{^^}	Screen Interval (m)	measured SWL		Lithology Screened	
							Easting	Northing			date	mbtoc		mAHD
WCX-BH039 ^{^^}	Discovery Park, Brodie Sparke Dr, Wollie Creek (Australand)	52.0			3.32	14-Jan-15	329553.24	6244157.93	49-52		19-Oct-15	4.36	-1.04	Hawkesbury Sandstone
WCX-BH040 ^{^^}	View St, Tempe	68.0			1.69	19-Dec-14	329679.77	6244313.44	65-68		19-Oct-15	2.52	-0.83	Basalt
WCX-BH042 ^{^^}	Kendrick Park, View St, Tempe	49.0			1.85	17-Dec-14	329718.7	6244348.17	45.5-48.5		19-Oct-15	0.96	0.89	Hawkesbury Sandstone
WCX-BH061s [^]	Salmarsh, Anciliff	10.0			0.85	14-Nov-14	329288.88	6242258.64	7.0-10.0		23-Jun-15	0.08	0.77	Botany Sands
WCX-BH063 [^]	Eve Street Banksia	44.0			3.37	24-Oct-14	329208.51	6242450.49	41-44		23-Jun-15	2.45	0.92	Hawkesbury Sandstone
WCX-BH063s [^]	Eve Street Banksia	8.0			3.31	24-Oct-14	329206.49	6242449.97	5.0-8.0		23-Jun-15	2.45	0.86	Botany Sands
WCX-BH070 ^{^^}	Off Bellevue St, Amcliffe	38.0			17.54	07-Nov-14	329041.77	6242920.40	35-38		19-Oct-15	10.75	6.79	Hawkesbury Sandstone
WCX-BH072 ^{^^}	Bexley Rd, Gilchrist Park, Kingsgrove	31.0			7.47	28-Nov-14	325560.61	6243242.77	28-31		19-Oct-15	2.58	4.89	Hawkesbury Sandstone
WCX-BH074 ^{^^}	Argyle St, Amcliff	42.0			2.58	18-Nov-14	329227.87	6243670.15	39-42		19-Oct-15	3.45	-0.87	Hawkesbury Sandstone
WCX-BH084 ^{^^}	Johnston St, Earlwood	51.0			30.02	03-Oct-14	325612.90	6243435.43	47.5-50.5		19-Oct-15	34.54	-4.52	Hawkesbury Sandstone
WCX-BH088 ^{^^}	176 Slade Rd, Bardwell Park	44.0			16.78	07-Nov-14	326181.73	6243434.42	41-44		19-Oct-15	16.13	0.65	Hawkesbury Sandstone
WCX-BH093 ^{^^}	Lorraine Ave., Bardwell Park	50.0			36.39	03-Dec-14	327657.04	6243183.19	47-50		19-Oct-15	12.90	23.49	Hawkesbury Sandstone
WCX-BH094 ^{^^}	7 Athelstane Ave, Anciliffe	57.0			31.17	10-Dec-14	327867.31	6243174.27	54-57		19-Oct-15	3.02	28.15	Hawkesbury Sandstone
WCX-BH103 ^{^^}	Samuel St, Sydnham, near Henry st	51.0			11.10	01-Dec-14	330430.65	6245201.04	48-51		19-Oct-15	6.64	4.46	Hawkesbury Sandstone
WCX-BH109 ^{^^}	Southern Cross Hotel car park, St Peters	36.0			6.91	13-Nov-14	331220.46	6245632.16	33-36		19-Oct-15	7.54	-0.66	Rouse Hill Siltstone
WCX-BH115 ^{^^}	northern end of Sydney Park,off Barwon Park Road St Peters	33.0			20.33	20-Nov-14	331875.09	6246376.30	29.5-32.5		19-Oct-15	15.00	5.33	Ashfield Shale
WCX-BH120 ^{^^}	Edith St, St Peters	21.0			20.33	25-Nov-14	331875.09	6246376.30	18-21		21-Jan-15	3.15	17.18	Ashfield Shale
WCX-BH122 ^{^^}	South Perimeter, Sydney Park, Campbell St, St Peters	18.0			5.72	17-Nov-14	332029.55	6245872.93	15-18		19-Oct-15	3.70	2.02	Ashfield Shale
WCX-BH143 ^{^^}	Silver Jubilee Park, Bardwell Valley	85.0			40.19	03-Feb-15	327180.783	6242912.157	82-85		19-Oct-15	20.76	19.43	Hawkesbury Sandstone
WCX-BH152s ^{^^}	Tempe train station (Rail corridor)	21.0			2.93	05-Mar-15	329588.61	6244818.27	18-21		19-Oct-15	2.30	0.63	alluvium
WCX-BH152d ^{^^}	Tempe train station (Rail corridor)	51.0			2.87	19-Feb-15	329588.86	6244819.26	48-51		19-Oct-15	1.51	1.36	Hawkesbury Sandstone
WCX-BH153 ^{^^}	KEA car park, Tempe	49.0			11.24	09-Feb-15	330468.3	6244765.88	46-49		19-Oct-15	8.00	3.24	Hawkesbury Sandstone
WCX-BH157 ^{^^}	KFC car park 108 Princes Hwy, St Peters	35.0			16.82	23-Jan-15	331518.01	6245765.53	32-35		19-Oct-15	29.74	-12.92	Regentville Siltstone
WCX-BH168 ^{^^}	next to Rockwell Ave, Cahill Park, Wollie Creek	51.0			1.36	03-Feb-15	329702.24	6243775.17	48-51		19-Oct-15	1.73	-0.37	Hawkesbury Sandstone
WCX-BH201 ^{**}	Scarborough Park, Colson Cres, Monterey	21.0			2.36	25-Feb-15	328743.65	6239918.81	18-21		29-Apr-17	0.92	1.44	Botany Sands
WCX-BH202 ^{**}	President Ave, Kogarah, St George TAFE car park	38.5			12.908	09-Jan-15	328077.955	6240175	35.5 - 38.5		06-Apr-17	3.93	8.94	Hawkesbury Sandstone
WCX-BH204 ^{**}	off O'Neil St, Rockdale	55.0			4.15	18-Feb-15	328849.85	6240324.85	52-55		06-Apr-17	2.01	2.14	Hawkesbury Sandstone
WCX-BH206 ^{**}	Beach St, Kogarah	22.0			2.39	06-Feb-15	328398.87	6240659.01	19-22		06-Apr-17	0.28	2.11	Hawkesbury Sandstone
WCX-BH208 [^]	Leighions Holdings Car park, off Bay St, Brighton Le Sands	52.8			2.42	15-Jan-15	328973.862	6240822.636	49.8-52.8		01-Apr-15	0.06	2.36	Hawkesbury Sandstone
WCX-BH211 ^{**}	Redmond Field, Brighton Le-Sands	51.0			2.05	02-Feb-15	329116.89	6241213.83	48-51		25-Apr-17	0.60	1.45	Hawkesbury Sandstone
WCX-BH213 ^{**}	68 Lennox St, Rockdale	32.0			10.88	20-Feb-15	328710.174	6241681.142	29-32		06-Apr-17	6.12	4.76	Hawkesbury Sandstone
WCX-BH214 ^{**}	next to Bestic St, Soccer Field Banksia (Rockdale Wetlands)	35.0			4.44	10-Feb-15	329228.01	6241854.19	32-35		06-Apr-17	2.99	1.45	Hawkesbury Sandstone

Notes: SWL - standing water level, toc - top of casing, mbtoc - metres below top of casing

* SWL from SMEC, 2018 - Appendix F

** SWL from AECOM, 2017a

[^] SWL measured in the preliminary stages of the New M5 project (AECOM unpublished)

^{^^} SWL from RMS, 2015

^{^^^} Vibrating wire sensor Level

SWL from SMEC 2017

Vibrating Wire Piezometer (SMEC, 2018c)

no details supplied (SMEC, 2018c)

Summary Table B2
F6 Extension
Field Parameters

Monitoring		Temperature	DO	EC	pH	Redox	Lithology
Well	Date/units	°C	mg/L	µS/cm	pH units	mv	
	LOR	0.01	0.01	0.1	0.01	0.1	
WCX_BH63a	18-Mar-15			866	6.34		alluvium
WCX_BH63a	16-Nov-15			1800			alluvium
WCX_BH201	18-Mar-15			17100	6.29		alluvium
BH014	22-Sep-16						alluvium
BH020	23-Sep-16						alluvium
BH1124	06-Sep-16						alluvium
BH1129	06-Sep-16						alluvium
BH1143	23-Sep-16						alluvium
BH1212	19-Jun-17			2100	8.1		alluvium
BH1214	19-Jun-17			2200	7.7		alluvium
BH1227	19-Jun-17			2100	6.6		alluvium
BH1229	19-Jun-17			3300	12.3		alluvium
BH1303	13-Nov-17	20.27	0.06	9600	6.41	-45.6	alluvium
BH1303	12-Dec-17	19.7	0.86	12780	6.48	-12	alluvium
BH1303	02-Mar-18			14000	6.2		alluvium
BH1313	29-Jan-18				6		alluvium
BH1314	14-Nov-17	21.73	0.19	348	5.07	140.2	alluvium
BH1314	13-Dec-17	20.1	0.91	253.9	5.51	117	alluvium
BH1314	02-Mar-18			230	5.1		alluvium
BH1318	29-Jan-18				7.1		alluvium
WCX_BH63	18-Mar-15			833	7.26		sandstone
WCX_BH202	18-Mar-15			10400	12.4		sandstone
WCX_BH204	18-Mar-15			3650	12.1		sandstone
WCX_BH206	18-Mar-15			1500	6.97		sandstone
WCX_BH208	18-Mar-15			3270	7.68		sandstone
WCX_BH214	18-Mar-15			3840	11.5		sandstone
WCX_BH63	16-Nov-15			516			sandstone
BH1100	11-Oct-16						sandstone
BH1129A	06-Sep-16						sandstone
BH1130	13-Oct-16						sandstone
BH1131	07-Sep-16						sandstone
BH1300	13-Nov-17	22.1	0.01	851	7.36	-195.2	sandstone
BH1300	12-Dec-17	21.5	0.83	1444	6.88	-196	sandstone
BH1300	02-Mar-18			1400	7.1		sandstone
BH1315	14-Nov-17	20.68	0.05	322	6.31	-48.6	sand/sandstone
BH1315	13-Dec-17	19.6	0.86	379	6.1	19	sand/sandstone
BH1315	02-Mar-18			330	6.1		sand/sandstone
BH1316	14-Nov-17	21.2	0.02	738.7	6.59	-67.2	sand/sandstone
BH1316	12-Dec-17	20	1.81	754	6.32	24	sand/sandstone
BH1316	02-Mar-18			730	6.4		sand/sandstone
TP1303	21-Dec-17	20.2	0.83	1886	6.75	-36	alluvium
TP1307	21-Dec-17	21.5	0.95	1854	6.82	-77	alluvium
TP1308	21-Dec-17	21.1	1.34	2090	6.67	-76	alluvium
TP1309	21-Dec-17	22.8	1.03	1274	6.82	-58	alluvium
TP1310	21-Dec-17	20.2	1.27	2234	6.83	-81	alluvium

Summary Table B3
F6 Extension - Stage 1
Inorganic Chemistry Analytical Results

		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Chloride	Sulphate	Resistivity	Total N	Nitrite	Nitrate	Ammonia	Phosphorous	Phosphate as P in water	Lithology
Monitoring	Date/units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Ω/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Well	LOR	0.5	0.5	0.5	0.5	5	5	1	1	1	0.01	0.005	0.005	0.005	0.05	0.005	
WCX_BH63a	18-Mar-15	66	18	52	19	<1	388	51	13		0.06	0.19	<0.01	19.9	<0.01		alluvium
WCX_BH201	18-Mar-15	262	321	3090	77	<1	213	4760	1120		<0.01	<0.01	<0.01	0.09	<0.01		alluvium
WCX_BH63a	16-Nov-15	240	32	56	33	<1	740	55	<10	556	0.12	<0.05	0.12	36.7	<0.05		alluvium
BH014	22-Sep-16	86	38	94	43	<5	910	50	3	-	120			63	-		alluvium
BH020	23-Sep-16	1.5	1.7	110	0.7	<5	21	54	71	-	3.9			0.01	-		alluvium
BH1124	06-Sep-16	41	18	95	8.9	<5	240	85	13	-	5.7			5.3	0.1		alluvium
BH1129	06-Sep-16	120	14	58	7.7	<5	260	77	76	-	1.5			0.78	0.4		alluvium
BH1143	23-Sep-16	59	46	220	6.3	<5	280	280	25	-	0.4			0.14	-		alluvium
BH1212	19-Jun-17							370	270								alluvium
BH1227	19-Jun-17							500	62								alluvium
BH1229	19-Jun-17							35	220								alluvium
BH1303	12-Dec-17	120		2300	66	<5	220	2900	700	1		0.006	<0.01	2		<0.005	alluvium
BH1303	12-Dec-17	150	250	3100	81	<5	130	3900	930	<1		<0.005	0.02	1.5		<0.05	alluvium
BH1303	02-Mar-18	150	230	2400	63	<5	190	4100	970	<1		<0.005	<0.025	1.4		0.069	alluvium
BH1313	29-Jan-18	320	360	3900	95	<5	320	7200	470	<1	10			10	<0.05		alluvium
BH1314	13-Dec-17	15		50	2.5	<5	16	47	82	28		<0.005	1.9	0.1		<0.005	alluvium
BH1314	13-Dec-17	9.4	2	38	1	<5	28	45	34	33		<0.005	1.6	0.082		<0.005	alluvium
BH1314	02-Mar-18	2.4	2.5	28	1.5	<5	7	47	13	44		0.009	1.9	0.013		0.042	alluvium
BH1318	29-Jan-18	54	25	280	44	<5	610	150	120	5.8	33	<0.005	<0.005	33	0.2		alluvium
TP1303	21-Dec-17	230	41	120	39	<5	960	110	23	5	7.5	<0.005	<0.005	4.6		0.005	alluvium
TP1307	21-Dec-17	270	32	78	37	<5	980	69	<1	5	7.8	<0.005	<0.005	4.7		<0.005	alluvium
TP1308	21-Dec-17	110	34	100	43	<5	970	86	18	5	140	<0.005	<0.005	110		0.005	alluvium
TP1309	21-Dec-17	120	27	75	31	<5	730	89	<1	7	84	<0.005	<0.005	64		0.008	alluvium
TP1310	21-Dec-17	94	35	120	57	<5	1100	40	21	5	170	<0.005	0.094	130		<0.005	alluvium
WCX_BH63	18-Mar-15	14	11	114	5	<1	124	175	18		<0.01	<0.01	<0.01	0.18	<0.01		sandstone
WCX_BH202	18-Mar-15	606	<1	562	250	124	<1	445	3		0.06	0.01	0.05	1.57	<0.01		sandstone
WCX_BH204	18-Mar-15	239	<1	164	66	100	<1	194	9		0.01	<0.01	0.01	1.96	<0.01		sandstone
WCX_BH206	18-Mar-15	45	33	188	6	<1	150	335	35		0.03	<0.01	0.03	0.03	<0.01		sandstone

Summary Table B3
F6 Extension - Stage 1
Inorganic Chemistry Analytical Results

		Calcium	Magnesium	Sodium	Potassium	Carbonate	Bicarbonate	Chloride	Sulphate	Resistivity	Total N	Nitrite	Nitrate	Ammonia	Phosphorous	Phosphate as P in water	Lithology
Monitoring	Date/units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Ω/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Well	LOR	0.5	0.5	0.5	0.5	5	5	1	1	1	0.01	0.005	0.005	0.005	0.05	0.005	
WCX_BH208	18-Mar-15	154	63	448	21	<1	404	830	1		1.7	<0.01	1.7	1.23	0.08		sandstone
WCX_BH214	18-Mar-15	142	<1	492	198	125	<1	516	450		0.05	0.05	<0.01		<0.01		sandstone
WCX_BH63	16-Nov-15	11	7	73	10	<1	77	81	8	1940	0.25	<0.01	0.25	0.11	<0.01		sandstone
BH1100	11-Oct-16	47	15	140	6.1	<5	110	45	200	-					<0.05		sandstone
BH1129A	06-Sep-16	290	400	4800	120	<5	120	5900	850	-	0.9			0.34	<0.05		sandstone
BH1130	13-Oct-16	65	29	240	5	<5	72	380	90	-					0.1		sandstone
BH1131	07-Sep-16	42	11	280	2.1	<5	93	240	160	-	3.2			0.039	-		sandstone
BH1300	13-Nov-17	15		190	15	<5	180	160	16	12		<0.005	<0.005	1.1		0.17	sandstone
BH1300	13-Nov-17	-		-	-	<5	170	160	16	12		<0.005	<0.005	1.2		0.16	sandstone
BH1300	12-Dec-17	21	29	300	19	<5	270	290	2	7		<0.005	<0.005	1.6		0.17	sandstone
BH1300	02-Mar-18	17		240	18	<5	260	290	2	7.1		<0.005	<0.005	1.6		0.53	sandstone
BH1214	19-Jun-17							400	270								sand/sandstone
BH1315	13-Nov-17	14		73	2.8	<5	74	71	52	22		0.007	<0.005	0.3		0.013	sand/sandstone
BH1315	12-Dec-17	6.4	7.7	55	1.8	<5	38	72	21	29		<0.005	<0.005	0.082		0.025	sand/sandstone
BH1315	02-Mar-18	6.3	6.9	37	1.7	<5	46	68	14	30		<0.005	<0.005	0.061		0.063	sand/sandstone
BH1316	13-Nov-17	21		140	8.1	<5	140	140	26	14		<0.005	0.02	0.17		<0.005	sand/sandstone
BH1316	12-Dec-17	14	14	130	5.2	<5	85	160	16	14		<0.005	0.01	0.068		<0.005	sand/sandstone
BH1316	02-Mar-18	15	17	140	6.4	<5	93	160	15	14		<0.005	0.008	0.053		0.051	sand/sandstone
Guidelines																	
ANZECC (2000)																0.91	
NHMRC ADWF												3	50				
CCME (2007) CWQG Aquatic Life Freshwater												0.06	2.9				

Notes:
 NHMRC ADWG - (amended 2015) Human Health
 ANZECC (2000) Ecosystems Marine Water (95%)
 ^ aesthetic ^ health

Summary Table B4
F6 Extension - Stage 1
Metals - Analytical Results

		Arsenic	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Nickel	Zinc	Lithology
Monitoring Well	Date/units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	LOR	1.0	0.1	1.0	1.0	10.0	1.0	1.0	0.05	1.0	1.0	
WCX_BH63a	18-Mar-15	1	<0.1	<1	<1	11600	<1	109	<0.05	11	38	alluvium
WCX_BH63a	16-Nov-15	<1	<0.1	2	<1	41600	<1	680	<0.05	<1	8	alluvium
BH1303	13-Nov-17	<1	<0.1	<1	<1	3700	<1	190	<0.05	8	21	alluvium
BH1303	12-Dec-17	<1	<0.1	<1	<1	28000	<1		<0.05	4	20	alluvium
BH1303	02-Mar-18	4	0.2	<1	<1	78000	<1	920	<0.05	3	21	alluvium
BH1313	29-Jan-18	1	<0.1	<1	<1	53000	<1	2900	<0.05	4	82	alluvium
BH1314	13-Nov-17	<1	<0.1	<1	<1	3700	<1	240	<0.05	8	20	alluvium
BH1314	12-Dec-17	<1	<0.1	<1	<1	120	<1		<0.05	5	16	alluvium
BH1314	02-Mar-18	<1	<0.1	<1	<1	580	<1	49	<0.05	2	8	alluvium
BH1318	29-Jan-18	7	0.1	1	2	780	<1	250	<0.05	1	14	alluvium
BH1124	06-Sep-16	3	<0.1	<1	<1		<1	320	<0.05	10	8	alluvium
BH1129	06-Sep-16	<1	<0.1	<1	<1		<1	120	<0.05	3	2	alluvium
BH022A	22-Sep-16	21	<0.1	1	<1		<1	-	<0.05	<1	3	alluvium
BH014	22-Sep-16	3	<0.1	2	<1		<1	-	<0.05	18	8	alluvium
BH020	23-Sep-16	<1	<0.1	<1	<1		<1	-	<0.05	52	25	alluvium
BH1143	23-Sep-16	<1	<0.1	<1	<1		<1	-	<0.05	22	9	alluvium
WCX_BH63	18-Mar-15	<1	<0.1	<1	<1	10200	<1	163	<0.05	13	36	sandstone
WCX_BH201	18-Mar-15	2	<0.1	<1	<1	113000	<1	1260	<0.05	105	24	sandstone
WCX_BH202	18-Mar-15	<1	<0.1	71	10	770	5	3	<0.05	2	31	sandstone
WCX_BH204	18-Mar-15	<1	<0.1	<1	<1	770	<1	<1	<0.05	21	<1	sandstone
WCX_BH206	18-Mar-15	2	<0.1	<1	<1	15500	<1	1050	<0.05	30	38	sandstone
WCX_BH208	18-Mar-15	<1	<0.1	<1	<1	3020	<1	118	<0.05	<1	7	sandstone
WCX_BH63	16-Nov-15	<1	<0.1	<1	<1	7750	<1	184	<0.05	<1	22	sandstone
BH1129A	06-Sep-16	8	0.2	<1	<1		<1	4100	<0.05	57	180	sandstone
BH1130	07-Sep-16	2	<0.1	<1	<1		<1	1900	<0.05	30	19	sandstone
BH1131	07-Sep-16	<1	0.1	<1	3		<1	160	<0.05	9	22	sandstone
BH1300	13-Nov-17	55	<0.1	<1	<1	60000	<1	750	<0.05	11	83	sandstone
BH1300	12-Dec-17	<1	<0.1	<1	<1	<10	<1		<0.05	4	7	sandstone
BH1300	02-Mar-18	<1	<0.1	<1	<1	7100	<1	270	<0.05	<1	3	sandstone
BH011	20-Sep-16	2	<0.1	<1	<1		<1	-	<0.05	6	5	sandstone
BH1100	11-Oct-16	1	<0.1	<1	<1		<1	-	<0.05	<1	6	sandstone
BH1102	11-Oct-16	<1	0.2	<1	<1		<1	-	<0.05	8	33	sandstone
BH1315	13-Nov-17	<1	<0.1	<1	<1	8900	<1	370	<0.05	1	4	sand/sandstone
BH1315	12-Dec-17	<1	<0.1	<1	<1	2400	<1		<0.05	3	7	sand/sandstone
BH1315	02-Mar-18	<1	<0.1	<1	<1	7700	<1	230	<0.05	2	5	sand/sandstone
BH1316	13-Nov-17	<1	<0.1	<1	<1	3500	<1	230	<0.05	8	20	sand/sandstone
BH1316	12-Dec-17	<1	<0.1	<1	<1	33	<1		<0.05	3	5	sand/sandstone
BH1316	02-Mar-18	<1	<0.1	<1	1	6800	<1	240	<0.05	1	7	sand/sandstone
BH1112A	22-Sep-16	<1	<0.1	<1	2		<1	-	<0.05	26	25	sand/sandstone
TP1303	21-Dec-17	2	0.3	<1	2	4400	14	850	<0.05	7	99	alluvium
TP1307	21-Dec-17	<1	<0.1	<1	<1	15000	3	540	<0.05	<1	28	alluvium
TP1308	21-Dec-17	3	0.1	<1	<1	22000	2	100	<0.05	3	13	alluvium
TP1309	21-Dec-17	18	<0.1	1	<1	10000	1	390	<0.05	<1	5	alluvium
TP1310	21-Dec-17	2	0.1	2	<1	21000	5	100	<0.05	6	42	alluvium
Guidelines												
ANZECC (2000)			5.5	4.4	1.3		4.4		0.4	70	15	
NHMRC ADWF		10				30^		0.5^^				

Notes:

NHMRC ADWG - (amended 2015) Human Health

ANZECC (2000) Ecosystems Marine Water (95%)

^ aesthetic ^^ health

Summary Table B5
F6 Extension
Groundwater aggressivity to concrete
Alluvium and Hawkesbury Sandstone

						Exposure condition *			Aquifer
Well	Date	pH	resistivity	chloride	sulphate	concrete			
unit			Ωcm	mg/L	mg/L	pH	Cl	SO4	
WCX_BH63a	18-Mar-15	6.34		51	13	mild agg	mild agg	mild agg	alluvium
WCX_BH201	18-Mar-15			4760	1120		mild agg	moderate agg	alluvium
WCX_BH63a	16-Nov-15	6.29	556	55	<10	mild agg	mild agg	mild agg	alluvium
BH014	22-Sep-16		-	50	3		mild agg	mild agg	alluvium
BH020	23-Sep-16		-	54	71		mild agg	mild agg	alluvium
BH1124	06-Sep-16		-	85	13		mild agg	mild agg	alluvium
BH1129	06-Sep-16		-	77	76		mild agg	mild agg	alluvium
BH1143	23-Sep-16		-	280	25		mild agg	mild agg	alluvium
BH1212	19-Jun-17	8.1		370	270	mild agg	mild agg	mild agg	alluvium
BH1227	19-Jun-17	6.6		500	62	mild agg	mild agg	mild agg	alluvium
BH1229	19-Jun-17	12.3		35	220	mild agg	mild agg	mild agg	alluvium
BH1303	13/11/2017	6.41	1	2900	700	mild agg	mild agg	mild agg	alluvium
BH1303	12/12/2017	6.48	<1	3900	930	mild agg	mild agg	mild agg	alluvium
BH1303	02-Mar-18		<1	4100	970		mild agg	mild agg	alluvium
BH1313	29-Jan-18		<1	7200	470		moderate a	mild agg	alluvium
BH1314	13/11/2017	5.07	28	47	82	moderate agg	mild agg	mild agg	alluvium
BH1314	13/12/2017	5.51	33	45	34	mild agg	mild agg	mild agg	alluvium
BH1318	29-Jan-18	7.1	5.8	150	120	mild agg	mild agg	mild agg	alluvium
TP1303	21-Dec-17	7.1	5	110	23	mild agg	mild agg	mild agg	alluvium
TP1307	21-Dec-17	7.1	5	69	<1	mild agg	mild agg	mild agg	alluvium
TP1308	21-Dec-17	6.8	5	86	18	mild agg	mild agg	mild agg	alluvium
TP1309	21-Dec-17	6.9	7	89	<1	mild agg	mild agg	mild agg	alluvium
TP1310	21-Dec-17	6.8	5	40	21	mild agg	mild agg	mild agg	alluvium
WCX_BH63	18-Mar-15	7.26		175	18	mild agg	mild agg	mild agg	sandstone
WCX_BH202	18-Mar-15	12.4		445	3	mild agg	mild agg	mild agg	sandstone
WCX_BH204	18-Mar-15	12.1		194	9	mild agg	mild agg	mild agg	sandstone
WCX_BH206	18-Mar-15	6.97		335	35	mild agg	mild agg	mild agg	sandstone
WCX_BH208	18-Mar-15	7.68		830	1	mild agg	mild agg	mild agg	sandstone
WCX_BH214	18-Mar-15	11.5		516	450	mild agg	mild agg	mild agg	sandstone
WCX_BH63	16-Nov-15		1940	81	8		mild agg	mild agg	sandstone
BH1100	11-Oct-16		-	45	200		mild agg	mild agg	sandstone
BH1129A	06-Sep-16		-	5900	850		mild agg	mild agg	sandstone
BH1130	13-Oct-16		-	380	90		mild agg	mild agg	sandstone
BH1131	07-Sep-16		-	240	160		mild agg	mild agg	sandstone
BH1300	13/11/2017		12	160	16		mild agg	mild agg	sandstone
BH1300	13/11/2017	7.36	12	160	16	mild agg	mild agg	mild agg	sandstone
BH1300	12/12/2017	6.88	7	290	2	mild agg	mild agg	mild agg	sandstone
BH1300	02-Mar-18	7.1	7.1	290	2	mild agg	mild agg	mild agg	sandstone
BH1214	19-Jun-17	7.7		400	270	mild agg	mild agg	mild agg	sand/sandstone
BH1315	13/11/2017	6.31	22	71	52	mild agg	mild agg	mild agg	sand/sandstone
BH1315	13/12/2017	6.1	29	72	21	mild agg	mild agg	mild agg	sand/sandstone
BH1315	02-Mar-18	6.1	30	46	68	mild agg	mild agg	mild agg	sand/sandstone
BH1316	13/11/2017	6.59	14	140	26	mild agg	mild agg	mild agg	sand/sandstone
BH1316	12/12/2017	6.32	14	160	16	mild agg	mild agg	mild agg	sand/sandstone
BH1316	02-Mar-18	6.4	14	93	160	mild agg	mild agg	mild agg	sand/sandstone

Summary Table B6
F6 Extension
Groundwater aggressivity to steel
Alluvium and Hawkesbury Sandstone

						Exposure condition *			Aquifer
Well	Date	pH	resistivity	chloride	sulphate	steel			
unit			Ωcm	mg/L	mg/L	pH	Cl	resistivity	
WCX_BH63a	18/03/2015	6.34		51	13	non agg	non agg		alluvium
WCX_BH201	18/03/2015			4760	1120		mild agg		alluvium
WCX_BH63a	16/11/2015	6.29	556	55	<10	non agg	non agg	Severely agg	alluvium
BH014	22/09/2016		-	50	3		non agg		alluvium
BH020	23/09/2016		-	54	71		non agg		alluvium
BH1124	6/09/2016		-	85	13		non agg		alluvium
BH1129	6/09/2016		-	77	76		non agg		alluvium
BH1143	23/09/2016		-	280	25		non agg		alluvium
BH1212	19/06/2017	8.1		370	270	non agg	non agg		alluvium
BH1227	19/06/2017	6.6		500	62	non agg	non agg		alluvium
BH1229	19/06/2017	12.3		35	220	non agg	non agg		alluvium
BH1303	13/11/2017	6.41	1	2900	700	non agg	mild agg	Severely agg	alluvium
BH1303	12/12/2017	6.48	<1	3900	930	non agg	mild agg	Severely agg	alluvium
BH1303	02-Mar-18		<1	4100	970		mild agg	Severely agg	alluvium
BH1313	29-Jan-18		<1	7200	470		mild agg	Severely agg	alluvium
BH1314	13/11/2017	5.07	28	47	82	non agg	non agg	Severely agg	alluvium
BH1314	13/12/2017	5.51	33	45	34	non agg	non agg	Severely agg	alluvium
BH1318	29-Jan-18	7.1	5.8	150	120	non agg	non agg	Severely agg	alluvium
TP1303	21-Dec-17	7.1	5	110	23	non agg	non agg	Severely agg	alluvium
TP1307	21-Dec-17	7.1	5	69	<1	non agg	non agg	Severely agg	alluvium
TP1308	21-Dec-17	6.8	5	86	18	non agg	non agg	Severely agg	alluvium
TP1309	21-Dec-17	6.9	7	89	<1	non agg	non agg	Severely agg	alluvium
TP1310	21-Dec-17	6.8	5	40	21	non agg	non agg	Severely agg	alluvium
WCX_BH63	18/03/2015	7.26		175	18	non agg	non agg		sandstone
WCX_BH202	18/03/2015	12.4		445	3	non agg	non agg		sandstone
WCX_BH204	18/03/2015	12.1		194	9	non agg	non agg		sandstone
WCX_BH206	18/03/2015	6.97		335	35	non agg	non agg		sandstone
WCX_BH208	18/03/2015	7.68		830	1	non agg	non agg		sandstone
WCX_BH214	18/03/2015	11.5		516	450	non agg	non agg		sandstone
WCX_BH63	16/11/2015		1940	81	8		non agg	moderate agg	sandstone
BH1100	11/10/2016		-	45	200		non agg		sandstone
BH1129A	6/09/2016		-	5900	850		mild agg		sandstone
BH1130	13/10/2016		-	380	90		non agg		sandstone
BH1131	7/09/2016		-	240	160		non agg		sandstone
BH1300	13/11/2017		12	160	16		non agg	Severely agg	sandstone
BH1300	13/11/2017	7.36	12	160	16	non agg	non agg	Severely agg	sandstone
BH1300	12/12/2017	6.88	7	290	2	non agg	non agg	Severely agg	sandstone
BH1300	02-Mar-18	7.1	7.1	290	2	non agg	non agg	Severely agg	sandstone
BH1214	19/06/2017			400	270		non agg	Severely agg	sand/sandstone
BH1315	13/11/2017	6.31	22	71	52	non agg	non agg	Severely agg	sand/sandstone
BH1315	13/12/2017	6.1	29	72	21	non agg	non agg	Severely agg	sand/sandstone
BH1315	02-Mar-18	6.1	30	46	68	non agg	non agg	Severely agg	sand/sandstone
BH1316	13/11/2017	6.59	14	140	26	non agg	non agg	Severely agg	sand/sandstone
BH1316	12/12/2017	6.32	14	160	16	non agg	non agg	Severely agg	sand/sandstone
BH1316	02-Mar-18	6.4	14	93	160	non agg	non agg	Severely agg	sand/sandstone

Summary Table B7
F6 Extension
Packer Test Results (RMS, 2015)

Well ID	Test_Depth From (m)	Test_Depth To (m)	Median Depth (m)	Formation	P1 Lugeon	P2 Lugeon	P3 Lugeon	P4 Lugeon	P5 Lugeon	K (test average) (m/day)	Lugeon (average)	Classification
WCX_BH027	64	72.22	68.11	Hawkesbury Sandstone	11.92	8.38	7.48	8.01	8.93	0.10334	8.944	HIGH
WCX_BH027	46.8	55.98	51.39	Hawkesbury Sandstone	1.12					0.0132	1.12	MODERATE
WCX_BH027	48.3	55.98	52.14	Hawkesbury Sandstone	0.92	1.2	1.35	1.12	1.19	0.01318	1.156	MODERATE
WCX_BH027	37.7	47	42.35	Hawkesbury Sandstone	0.12	0.24	0.27	0.25	0.24	0.002656	0.224	LOW
WCX_BH027	55.8	63	59.40	Hawkesbury Sandstone	0.21	0.31	0.19	0.18	0.19	0.00241	0.216	LOW
WCX_BH027	71.5	80.27	75.89	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH035	37.85	44.85	41.35	Hawkesbury Sandstone	14.82	12.69	10.414	8.6	8.82	0.12398	11.0688	HIGH
WCX_BH035	43.85	53.85	48.85	Hawkesbury Sandstone	8.01	7.75				0.09445	7.88	HIGH
WCX_BH035	58.85	65.88	62.37	Hawkesbury Sandstone	23.32	21.89	16.16	20.15	22.79	0.2336	20.862	HIGH
WCX_BH035	20.85	29.85	25.35	Hawkesbury Sandstone	0.14	0.07	0.01	0.07	0.11	0.0009434	0.08	LOW
WCX_BH035	28.85	38.85	33.85	Hawkesbury Sandstone	0.92	0.81	0.86	0.51	0.51	0.00864	0.722	LOW
WCX_BH035	44.35	53.85	49.10	Hawkesbury Sandstone	0.07	0.06	0.05	0.19	0.09	0.0010724	0.092	LOW
WCX_BH035	52.85	59.85	56.35	Hawkesbury Sandstone	0.54	0.14	0.13	0.2	0.27	0.002836	0.256	LOW
WCX_BH064	24.6	29.85	27.23	Hawkesbury Sandstone	1.75	1.52	1.64	1.54	1.6	0.01696	1.61	MODERATE
WCX_BH064	29.1	35.9	32.50	Hawkesbury Sandstone	0.53	0.24	0.23	0.24	0.23	0.003288	0.294	LOW
WCX_BH065	26.9	29.9	28.40	Mittagong Formation	119.73	96.71	101.14	131.65	41.85	0.9092	98.216	EXTREMELY HIGH
WCX_BH165	52.89	59.81	56.35	Hawkesbury Sandstone	0	0	0.02	0.03	0.035	0.0008988	0.017	LOW
WCX_BH165	59.81	70.21	65.01	Hawkesbury Sandstone	0.54	0.23	0.21	0.23	0.03	0.0029838	0.248	LOW
WCX_BH165	70.21	80.6	75.41	Hawkesbury Sandstone	0	0	0.01	0.01	0	6.396E-05	0.004	LOW
WCX_BH165	80.6	90.99	85.80	Hawkesbury Sandstone	0.76	0.75	0.68	0.69	0.4	0.007916	0.656	LOW
WCX_BH165	90.64	95.61	93.13	Hawkesbury Sandstone	0.04	0	0	0	0	8.826E-05	0.008	LOW
WCX_BH165	95.38	100.46	97.92	Hawkesbury Sandstone	0	0	0	0	0	0.0000099	0	LOW
WCX_BH167	46.8	55	50.90	Hawkesbury Sandstone	3.7	3.29	2.77	2.89	3.47	0.03724	3.224	MODERATE
WCX_BH167	27	38	32.50	Hawkesbury Sandstone	0	0	0.05	0	0	0.0001316	0.01	LOW
WCX_BH167	37.3	47	42.15	Hawkesbury Sandstone	0.81	0.9	0.79	0.63	0.15	0.007846	0.656	LOW
WCX_BH168	47	56	51.50	Hawkesbury Sandstone	17.93	14.51	11.6	13.08	14.81	0.1692	14.386	HIGH
WCX_BH168	53.75	65	59.38	Hawkesbury Sandstone	7.74	16.72	13.42	15.47	17.27	0.17318	14.124	HIGH
WCX_BH200	28.1	37.1	32.60	Hawkesbury Sandstone	0.55	0.47	0.33	0.47	0.57	0.00559	0.478	LOW
WCX_BH200	36.8	46.2	41.50	Hawkesbury Sandstone	0	0.01	0.05	0.02	0	0.0001862	0.016	LOW
WCX_BH200	46	55.2	50.60	Hawkesbury Sandstone	0.39	0.56	0.3	0.37	0.66	0.002236	0.456	LOW
WCX_BH200	55	64.2	59.60	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH200	64	74	69.00	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH201	48	57	52.50	Hawkesbury Sandstone	0	4.62	5.81	0	0	0.02452	2.086	MODERATE
WCX_BH201	30	39	34.50	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH201	39	48	43.50	Hawkesbury Sandstone	0	0.09	1.35	0	0	0.003396	0.288	LOW

Summary Table B7
F6 Extension
Packer Test Results (RMS, 2015)

Well ID	Test_Depth From (m)	Test_Depth To (m)	Median Depth (m)	Formation	P1 Lugeon	P2 Lugeon	P3 Lugeon	P4 Lugeon	P5 Lugeon	K (test average) (m/day)	Lugeon (average)	Classification
WCX_BH201	57	69	63.00	Hawkesbury Sandstone	0	1.09	2.76	0	0	0.00954	0.77	LOW
WCX_BH202	23.65	29.65	26.65	Hawkesbury Sandstone	1.19	0.68	0.95	0.68	0	0.007588	0.7	LOW
WCX_BH202	29.65	38.65	34.15	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH202	35.65	44.82	40.24	Hawkesbury Sandstone	0	0.59	0.42	0.29	0	0.003054	0.26	LOW
WCX_BH203	39	51	45.00	Hawkesbury Sandstone	0.31	0.43	0.42	0.33	0.56	0.0051	0.41	LOW
WCX_BH203	50.75	63	56.88	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH203	62.75	75	68.88	Hawkesbury Sandstone	0.03	0.02	0.02	0.02	0	0.0002288	0.018	LOW
WCX_BH204	42	51	46.50	Hawkesbury Sandstone	43.07	55.83	53.05	46.08	0.57	0.466934	39.72	VERY HIGH
WCX_BH204	33	42	37.50	Hawkesbury Sandstone	19.655	14.05	14.69	16.23	18.99	0.1964	16.723	HIGH
WCX_BH204	51.75	57	54.38	Hawkesbury Sandstone	15.71	15.41	13.7	10.72	14.7	0.1482	14.048	HIGH
WCX_BH204	58	67	62.50	Hawkesbury Sandstone	1.17	0.77	0.43	0.71	1.21	0.010084	0.858	LOW
WCX_BH205	43.3	51.5	47.40	Hawkesbury Sandstone	31.56	21.55	18.09	20.25	24.42	0.2676	23.174	VERY HIGH
WCX_BH205	36.8	43.88	40.34	Mittagong Formation	0	5.58	0	0	0	0.01248	1.116	MODERATE
WCX_BH205	51	58	54.50	Hawkesbury Sandstone	4.87	3.22	2.52	2.84	4.23	0.03956	3.536	MODERATE
WCX_BH206	15	22.5	18.75	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH206	22.5	30	26.25	Hawkesbury Sandstone	0	0	0.02	0	0	0.0000378	0.004	LOW
WCX_BH209	35.7	46.56	41.13	Hawkesbury Sandstone	0.26	3.17	3.89	3.23	2.12	0.030874	2.534	MODERATE
WCX_BH209	31	37.5	34.25	Hawkesbury Sandstone	0.78	1.05	1	0.91	0.43	0.009186	0.834	LOW
WCX_BH209	46	52.5	49.25	Hawkesbury Sandstone	0.33	0.47	0	0	0	0.001768	0.16	LOW
WCX_BH209	52	60	56.00	Hawkesbury Sandstone	0.1	0.27	0.43	0.43	0.48	0.003922	0.342	LOW
WCX_BH210	18	23	20.50	Hawkesbury Sandstone	0	0.6	0.66	0.63	0.43	0.004848	0.464	LOW
WCX_BH210	22	32	27.00	Hawkesbury Sandstone	0.58	0.67	0.8	0.67	0.18	0.006966	0.58	LOW
WCX_BH210	31.8	41	36.40	Hawkesbury Sandstone	0.13	0.29	0.36	0.11	0.16	0.00247	0.21	LOW
WCX_BH212	35.2	48.42	41.81	Hawkesbury Sandstone	8.65	43.78	35.99	18.45		0.337	26.7175	VERY HIGH
WCX_BH212	49.4	60.53	54.97	Hawkesbury Sandstone	0	0.21	0.2	0.23	0.16	0.001946	0.16	LOW
WCX_BH212	60	71	65.50	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH213	25	37	31.00	Hawkesbury Sandstone	2.54	2.17	1.75	1.63	1.67	0.02416	1.952	MODERATE
WCX_BH213	36.8	49	42.90	Hawkesbury Sandstone	0.18	0.2	0.6	0.21	0.14	0.003306	0.266	LOW
WCX_BH215	39	48	43.50	Hawkesbury Sandstone	0	0	0	0	0	0	0	LOW
WCX_BH215	48	57	52.50	Hawkesbury Sandstone	1.17	1.52	0.73	0.43	0	0.009056	0.77	LOW
WCX_BH215	57	66	61.50	Hawkesbury Sandstone	0.16	0.02	0	0	0	0.0004316	0.036	LOW

Notes:

Lugeon - Hydraulic conductivity represented in lugeon units
m/day - Hydraulic conductivity represented as metres per day
N/A no data - equipment failure

Classification:

Low : less than 1 lugeon
Moderate: 1 to 5 Lugeons
High: 6 to 20 Lugeons

Very High: 21 to 50 Lugeons
Extremely High: greater than 50 Lugeons

Summary Table B8
F6 Extension
Packer Test Results (SMEC, 2017, 2018)

Borehole	Coordinates		Location	Date Tested	Inclination	measured interval (m)		corrected interval (m)		Lithology	Test Midpoint (m) Corrected	Hydraulic Conductivity (interpreted)		Classification
	Easting	Northing				upper	lower	upper	lower			Lugeon	m/day	
BH1210	328396.9	6241463.2	Pitt St, Rockdale	26-May-17	60.0	30.2	36.2	26.2	31.3	Hawkesbury Sandstone	28.8	0.1	0.001	Low
				29-May-17		36.2	42.2	31.3	36.5		33.9	<0.1	<0.001	Low
				30-May-17		42.2	48.2	36.5	41.7		39.1	<0.1	<0.001	Low
				31-May-17		48.2	54.2	41.7	46.9		44.3	<0.1	<0.001	Low
				31-May-17		54.2	62.2	46.9	53.9		50.4	0.3	0.003	Low
BH1211	328531.7	6240643.7	Industrial Complex Beach St, Kogarah	20-Jul-17	60.0	34.6	40.6	30.0	35.2	Hawkesbury Sandstone	32.6	7.07	0.080	High
				20-Jul-17		40.9	46.9	35.4	40.6		38.0	<0.1	<0.001	Low
				20-Jul-17		49.1	55.1	42.5	47.7		45.1	1.82	0.021	Moderate
BH1213	328237.2	6240241.7	Cross St, Korarah	20-May-17	60.0	35.5	41.5	30.7	35.9	Hawkesbury Sandstone	33.3	<0.1	<0.001	Low
				23-May-17		41.3	47.3	35.8	41.0		38.4	1.5	0.017	Moderate
				23-May-17		47.5	53.5	41.1	46.3		43.7	<0.1	<0.001	Low
				23-May-17		53.4	59.4	46.2	51.4		48.8	0.3	0.003	Low
				24-May-17		59.3	65.3	51.4	56.5		54.0	0.1	0.001	Low
BH1215	328218.2	6239644.5	Oakdale Ave, Kogarah	04-May-17	60.0	47.9	54.2	41.5	46.9	Hawkesbury Sandstone	44.2	0.6	0.007	Low
				05-May-17		53.9	60.2	46.7	52.1		49.4	<0.1	<0.001	Low
				05-May-17		59.9	66.2	51.9	57.3		54.6	<0.1	<0.001	Low
BH1216	328076.5	6239287.1	Austral St, Kogarah	06-Jun-17	60.0	30.0	36.0	26.0	31.2	Hawkesbury Sandstone	28.6	0.3	0.003	Low
				06-Jun-17		42.0	48.0	36.4	41.6		39.0	0.6	0.007	Low
				13-Jun-17		54.0	60.0	46.8	52.0		49.4	1.5	0.017	Moderate
BH1221	327721.2	6237554.3	Richie St, Sans Souci	10-May-17	60.0	20.9	27.2	18.1	23.6	Hawkesbury Sandstone	20.8	1.1	0.013	Moderate
				11-May-17		32.6	39.1	28.2	33.9		31.0	0.2	0.002	Low
				15-May-17		41.6	48.1	36.0	41.7		38.8	6.7	0.076	High
BH1223	327590.8	6236641.5	Toyer Ave, Sans Souci	01-Jun-17	60	36.4	42.3	31.5	36.6	Hawkesbury Sandstone	34.1	0.2	0.002	Low
						37.4	42.3	32.4	36.6		34.5	0.2	0.002	Low
BH1224	327985.3	6239181.9	Wilson St, Korarah	12-May-17	60	29.7	36.1	25.7	31.3	Hawkesbury Sandstone	28.5	<0.1	<0.001	Low
				15-May-17		41.7	48.1	36.1	41.7		38.9	<0.1	<0.001	Low
				15-May-17		50.7	57.1	43.9	49.4		46.7	<0.1	<0.001	Low
BH1227	327291.3	6236377.7	Kendall St Reserve, Sans Souci	05-May-17	90.0	20.8	26.1	20.8	26.1	Hawkesbury Sandstone	23.5	2.3	0.026	Moderate
				08-May-17		25.2	32.0	25.2	32.0		28.6	2.2	0.025	Moderate
BH1228	327077.1	6236739.8	The Bouervarde, Sans Souci	06-Jun-17	60.0	33.3	39.2	28.8	33.9	Hawkesbury Sandstone	31.4	2.2	0.025	Moderate
				06-Jun-17		39.3	45.2	34.0	39.1		36.6	1.46	0.017	Moderate
				06-Jun-17		45.3	51.2	39.2	44.3		41.8	<0.1	<0.001	Low
BH1230	327034.70	6236290.40	Nelson St Reserve, Sans Souci	22-May-17	60.00	13.20	19.10	11.4	16.5	Hawkesbury Sandstone	14.0	2.25	0.026	Moderate
				23-May-17		19.20	25.10	16.6	21.7		19.2	0.3	0.003	Low
				23-May-17		25.20	31.10	21.8	26.9		24.4	0.6	0.007	Low

Summary Table B8
F6 Extension
Packer Test Results (SMEC, 2017, 2018)

Borehole	Coordinates		Location	Date Tested	Inclination	measured interval (m)		corrected interval (m)		Lithology	Test Midpoint (m) Corrected	Hydraulic Conductivity (interpreted)		Classification
	Easting	Northing				upper	lower	upper	lower			Lugeon	m/day	
BH1305	328503.70	6240842.10	Lindsay St, Rockdale	10-Jan-18	60.0	41.00	47.00	35.5	40.7	Hawkesbury Sandstone	38.1	1	0.011	Moderate
				10-Jan-18		47.50	53.00	41.1	45.9	Hawkesbury Sandstone	43.5	2.3	0.026	Moderate
				11-Jan-18		53.00	59.00	45.9	51.1	Hawkesbury Sandstone	48.5	0.1	0.001	Low
				11-Jan-18		59.00	65.00	51.1	56.3	Hawkesbury Sandstone	53.7	0.2	0.002	Low
				12-Jan-18		65.00	71.00	56.3	61.5	Hawkesbury Sandstone	58.9	0.3	0.003	Low
BH1306	328373.94	6240983.76	Rockdale tennis club, Rockdale	05-Dec-17	60.0	47.00	53.00	40.7	45.9	Hawkesbury Sandstone	43.3	<0.1	<0.001	Low
				05-Dec-17		53.20	59.20	46.1	51.3	Hawkesbury Sandstone	48.7	<0.1	<0.001	Low
				06-Dec-17		59.20	65.20	51.3	56.5	Hawkesbury Sandstone	53.9	0.1	0.001	Low
				06-Dec-17		65.20	71.20	56.5	61.7	Hawkesbury Sandstone	59.1	<0.1	<0.001	Low
				06-Dec-17		71.20	77.20	61.7	66.9	Hawkesbury Sandstone	64.3	10	0.114	High
BH1307	328355.20	6241124.30	Aboukir Street, Rockdale	18-Jan-18	60.0	42.00	48.00	36.4	41.6	Hawkesbury Sandstone	39.0	0.9	0.010	Low
				19-Jan-18		48.00	54.00	41.6	46.8	Hawkesbury Sandstone	44.2	0.7	0.008	Low
				19-Jan-18		54.00	60.00	46.8	52.0	Hawkesbury Sandstone	49.4	0.2	0.002	Low
				19-Jan-18		60.00	66.00	52.0	57.2	Hawkesbury Sandstone	54.6	0.1	0.001	Low
				22-Jan-18		66.00	72.00	57.2	62.4	Hawkesbury Sandstone	59.8	0.4	0.005	Low
BH1310	328577.10	6242164.40	Gibbes Street, Rockdale	22-Jan-18	60.0	72.00	78.00	62.4	67.5	Hawkesbury Sandstone	65.0	0.4	0.005	Low
				11-Dec-17		65.50	74.50	56.7	64.5	Hawkesbury Sandstone	60.6	0.6	0.007	Low
				11-Dec-17		74.50	80.55	64.5	69.8	Hawkesbury Sandstone	67.1	0.3	0.003	Low
				12-Dec-17		80.55	86.55	69.8	75.0	Hawkesbury Sandstone	72.4	0.3	0.003	Low
				12-Dec-17		86.55	95.55	75.0	82.7	Hawkesbury Sandstone	78.8	0.5	0.006	Low
BH1311	328565.50	6242415.10	Sharron Court, Rockdale	13-Dec-17	60.0	95.55	101.55	82.7	87.9	Hawkesbury Sandstone	85.3	0.3	0.003	Low
				20-Jan-18		60.00	68.15	52.0	59.0	Hawkesbury Sandstone	55.5	<0.1	<0.001	Low
				20-Jan-18		68.15	74.15	59.0	64.2	Hawkesbury Sandstone	61.6	<0.1	<0.001	Low
				23-Jan-18		74.15	80.15	64.2	69.4	Hawkesbury Sandstone	66.8	<0.1	<0.001	Low
				24-Jan-18		80.15	89.15	69.4	77.2	Hawkesbury Sandstone	73.3	<0.1	<0.001	Low
				24-Jan-18		89.15	98.15	77.2	85.0	Hawkesbury Sandstone	81.1	<0.1	<0.001	Low

Summary Table B8
F6 Extension
Packer Test Results (SMEC, 2017, 2018)

Borehole	Coordinates		Location	Date Tested	Inclination	measured interval (m)		corrected interval (m)		Lithology	Test Midpoint (m) Corrected	Hydraulic Conductivity (interpreted)		Classification
	Easting	Northing				upper	lower	upper	lower			Lugeon	m/day	
BH1320	328929.10	6243011.70	Gibbes Street, Rockdale	05-Dec-17	60.0	47.00	53.00	40.7	45.9	Hawkesbury Sandstone	43.3	1.2	0.014	Moderate
				05-Dec-17		53.00	59.20	45.9	51.3	Hawkesbury Sandstone	48.6	35	0.398	very high
				11-Dec-17		60.00	65.00	52.0	56.3	Hawkesbury Sandstone	54.1	60	0.682	Extreme
				12-Dec-17		65.00	74.00	56.3	64.1	Hawkesbury Sandstone	60.2	<0.1	<0.001	Low
				12-Dec-17		74.00	80.00	64.1	69.3	Hawkesbury Sandstone	66.7	<0.1	<0.001	Low
				13-Dec-17		80.00	86.00	69.3	74.5	Hawkesbury Sandstone	71.9	0.4	0.005	Low

Notes:

Lugeon - Hydraulic conductivity represented in lugeon units
m/day - Hydraulic conductivity represented as metres per day
N/A no data - equipment failure

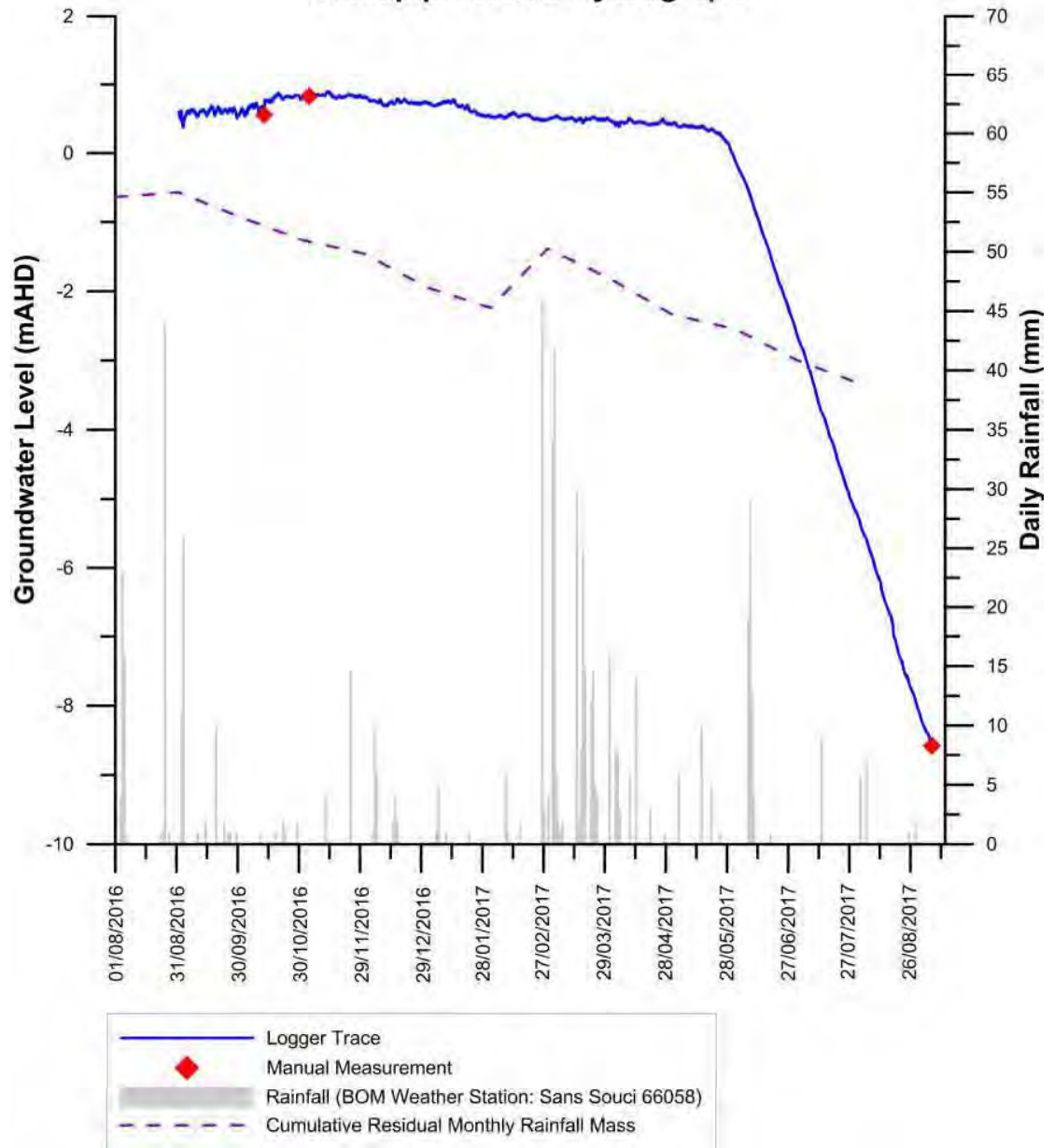
Classification:

Low: less than 1 lugeon
Moderate: 1 to 5 Lugeons
High: 6 to 20 Lugeons
Very High: 21 to 50 Lugeons
Extremely High: greater than 50 Lugeons

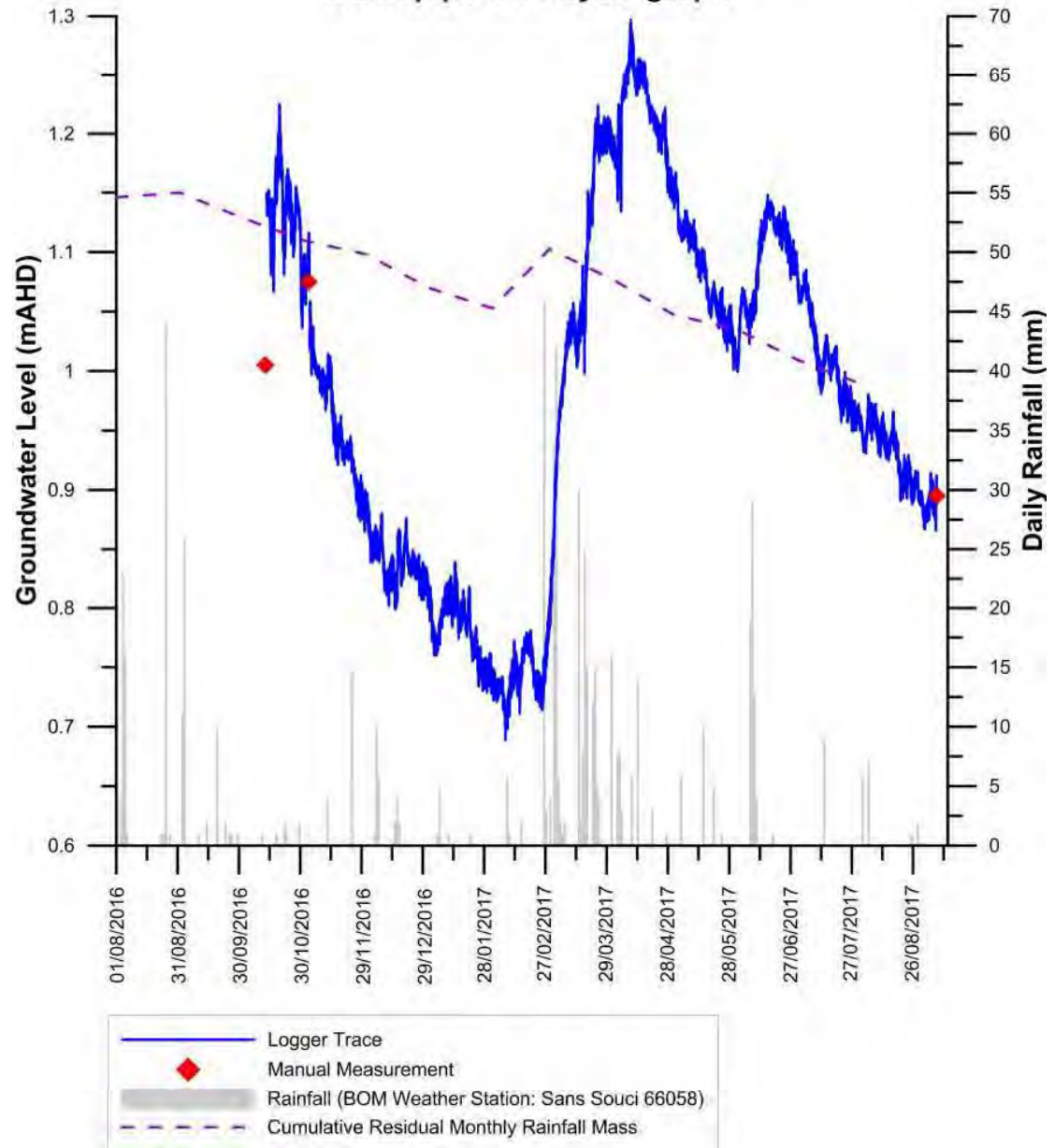
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Annexure C – Hydrographs

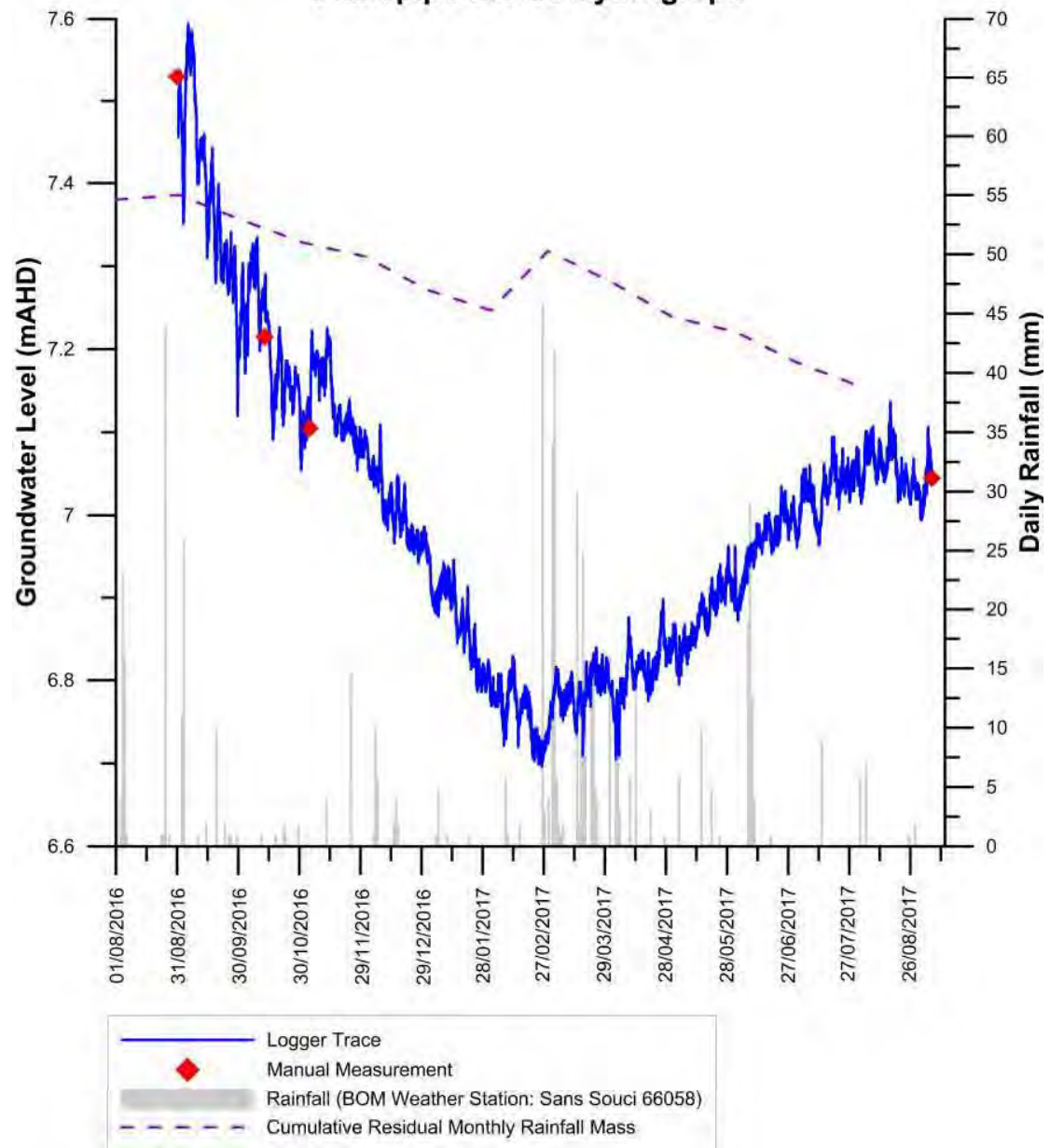
Standpipe BH002 Hydrograph



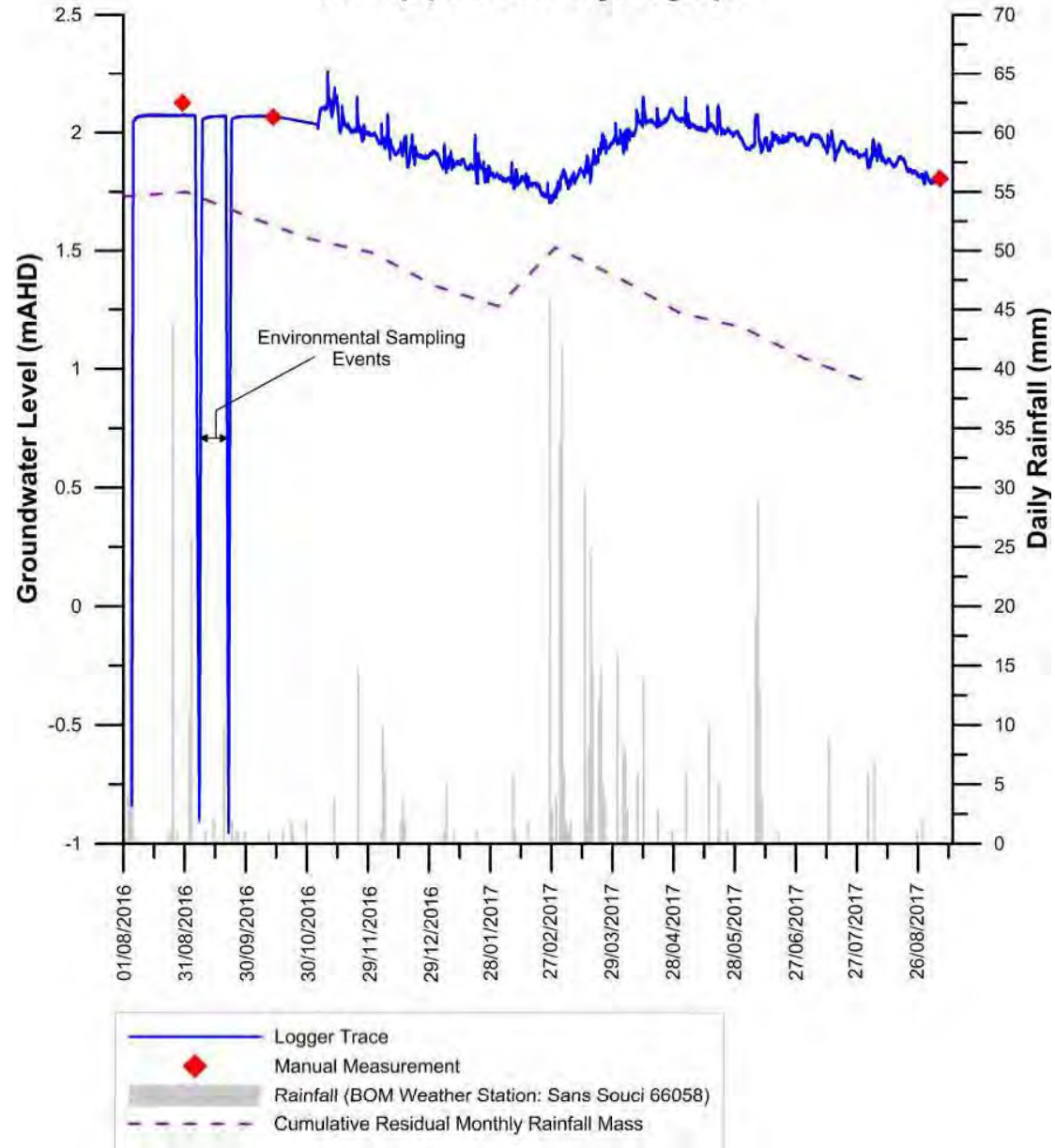
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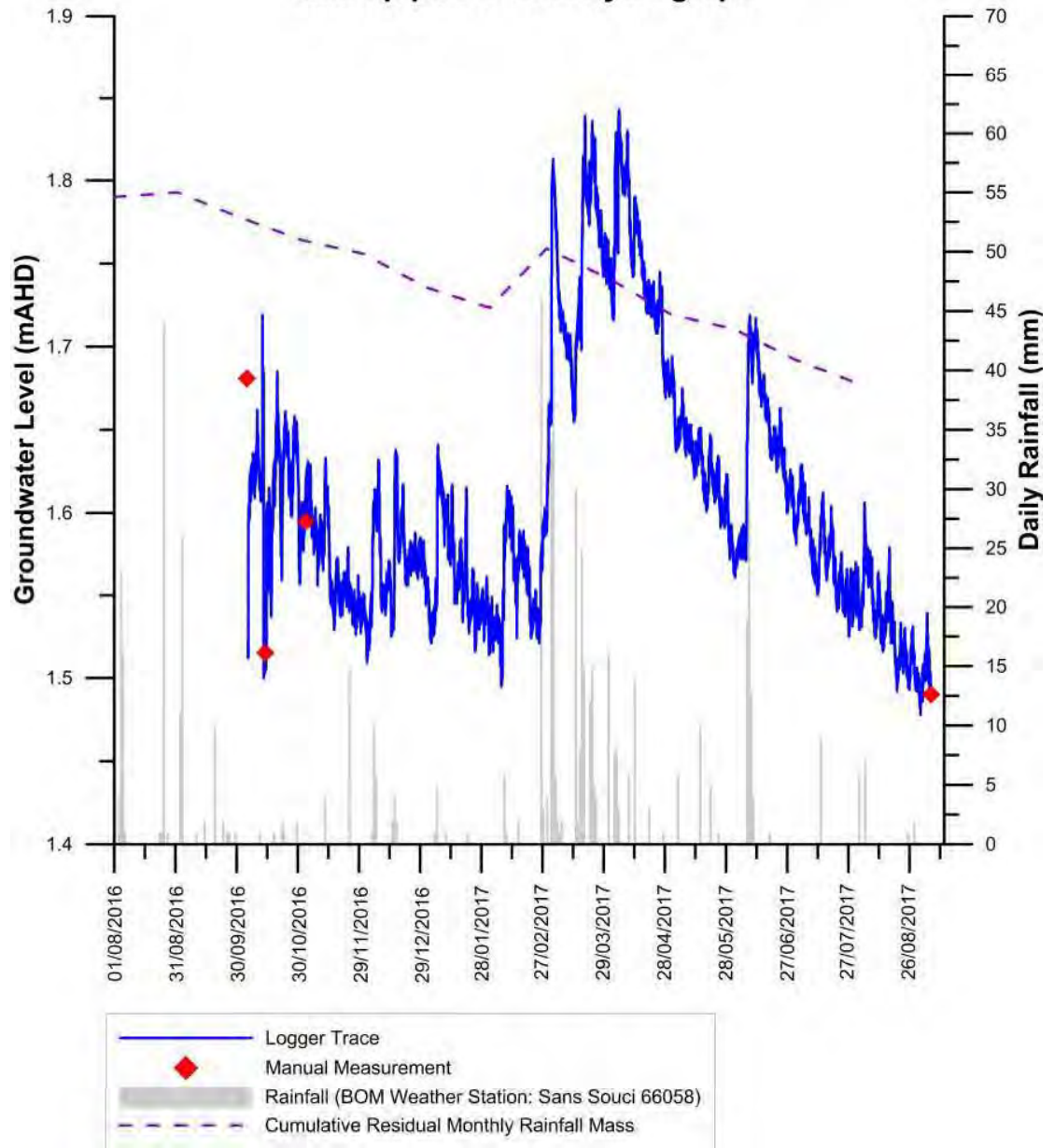
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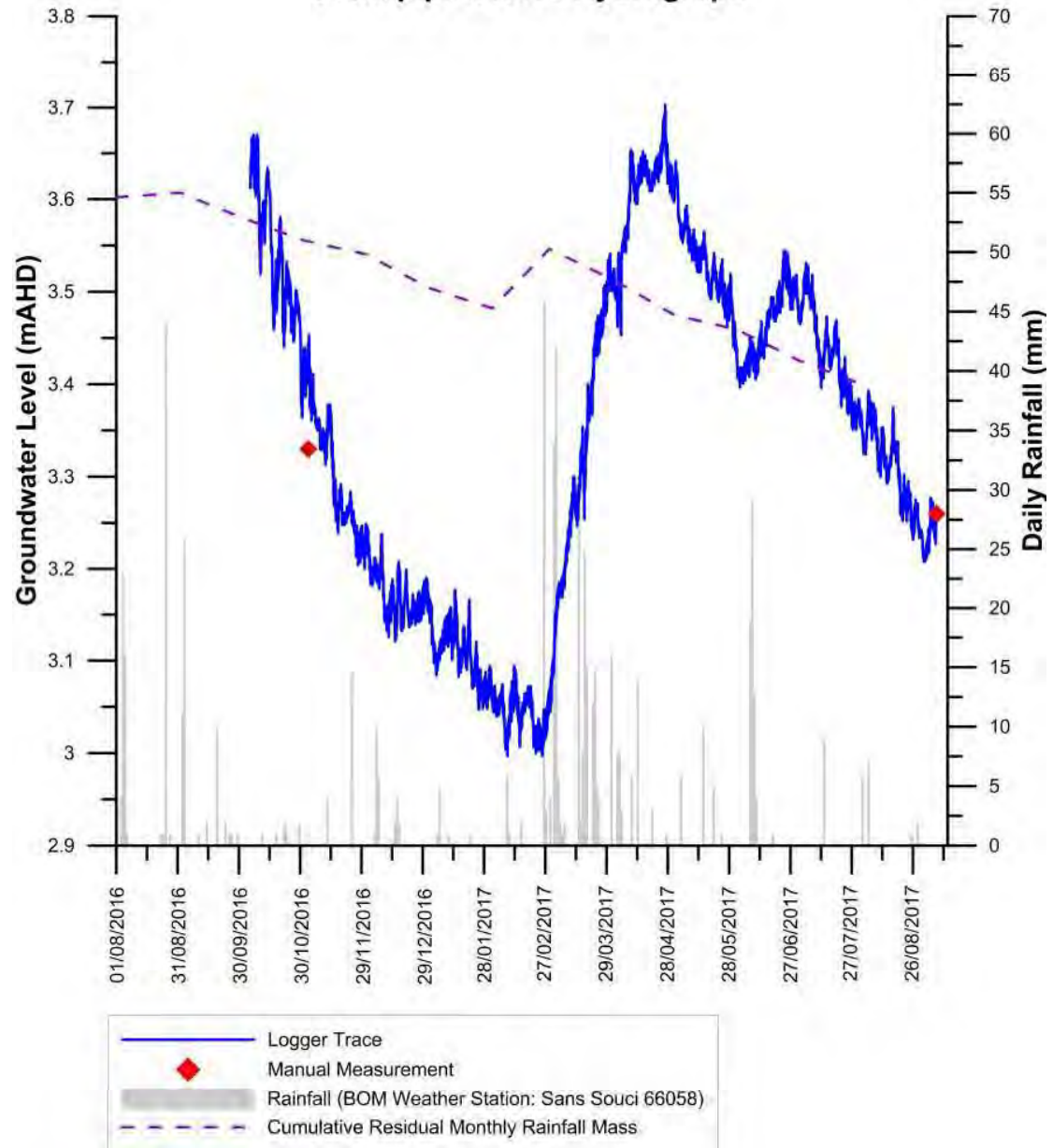
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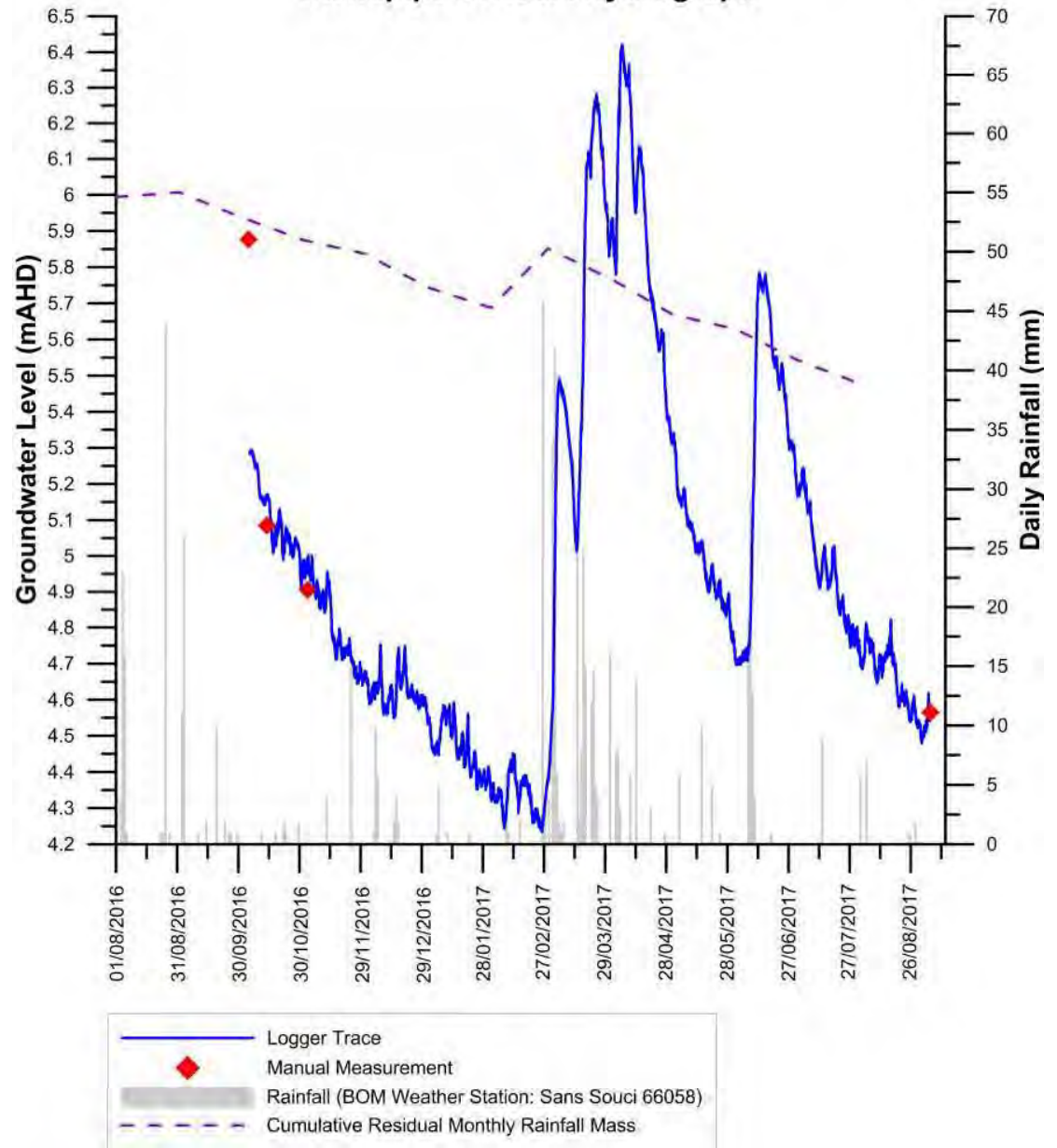
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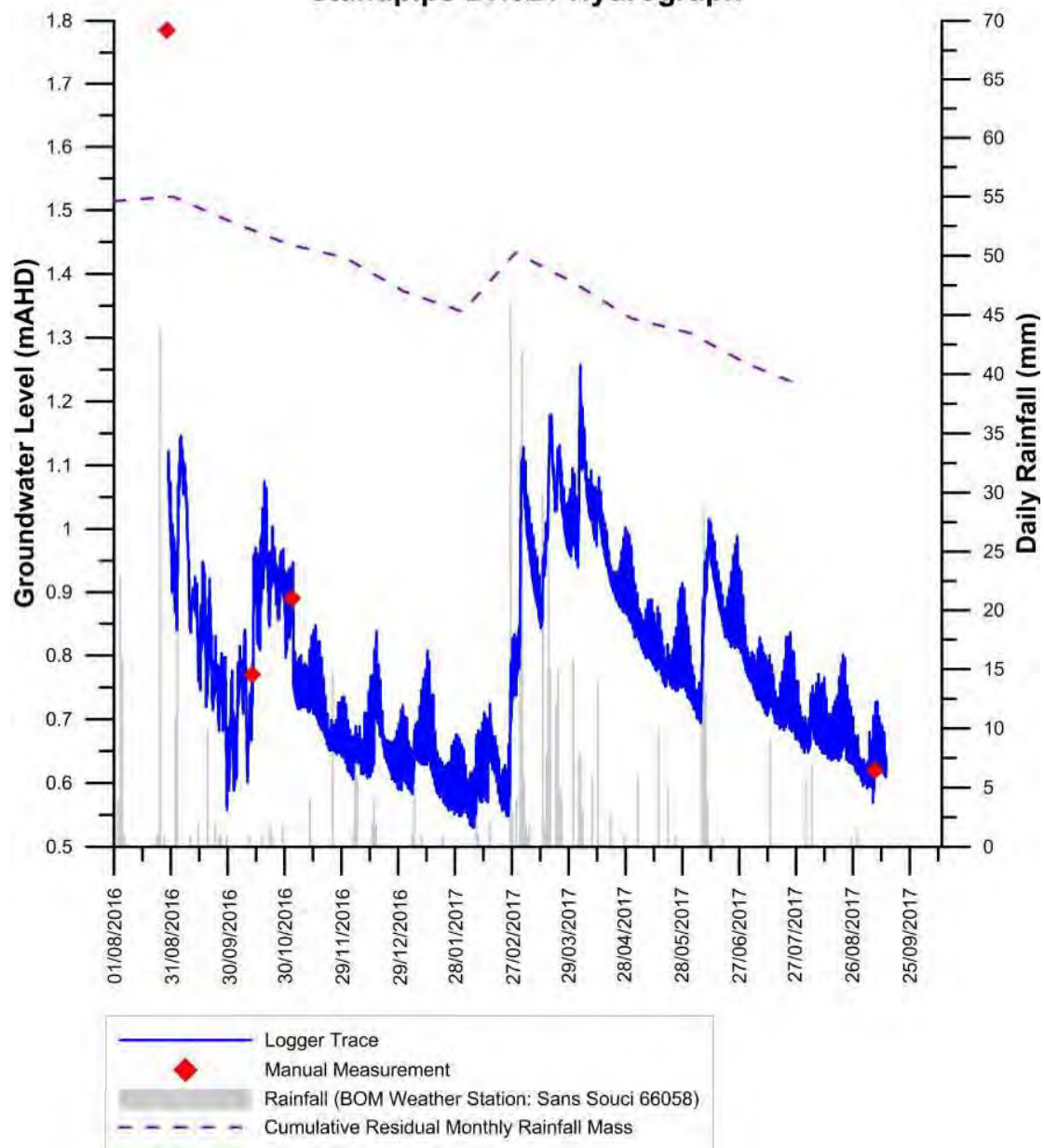
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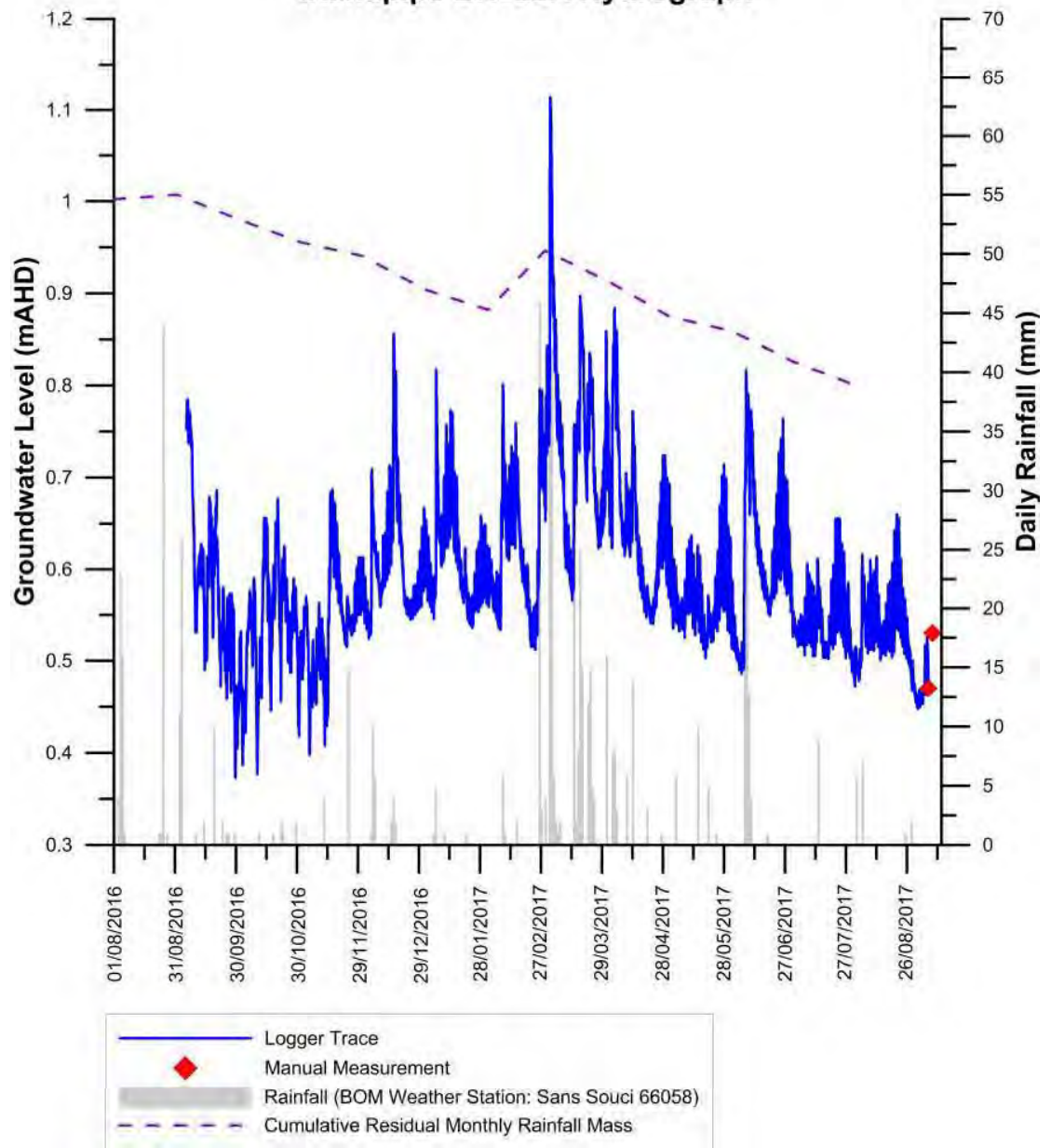
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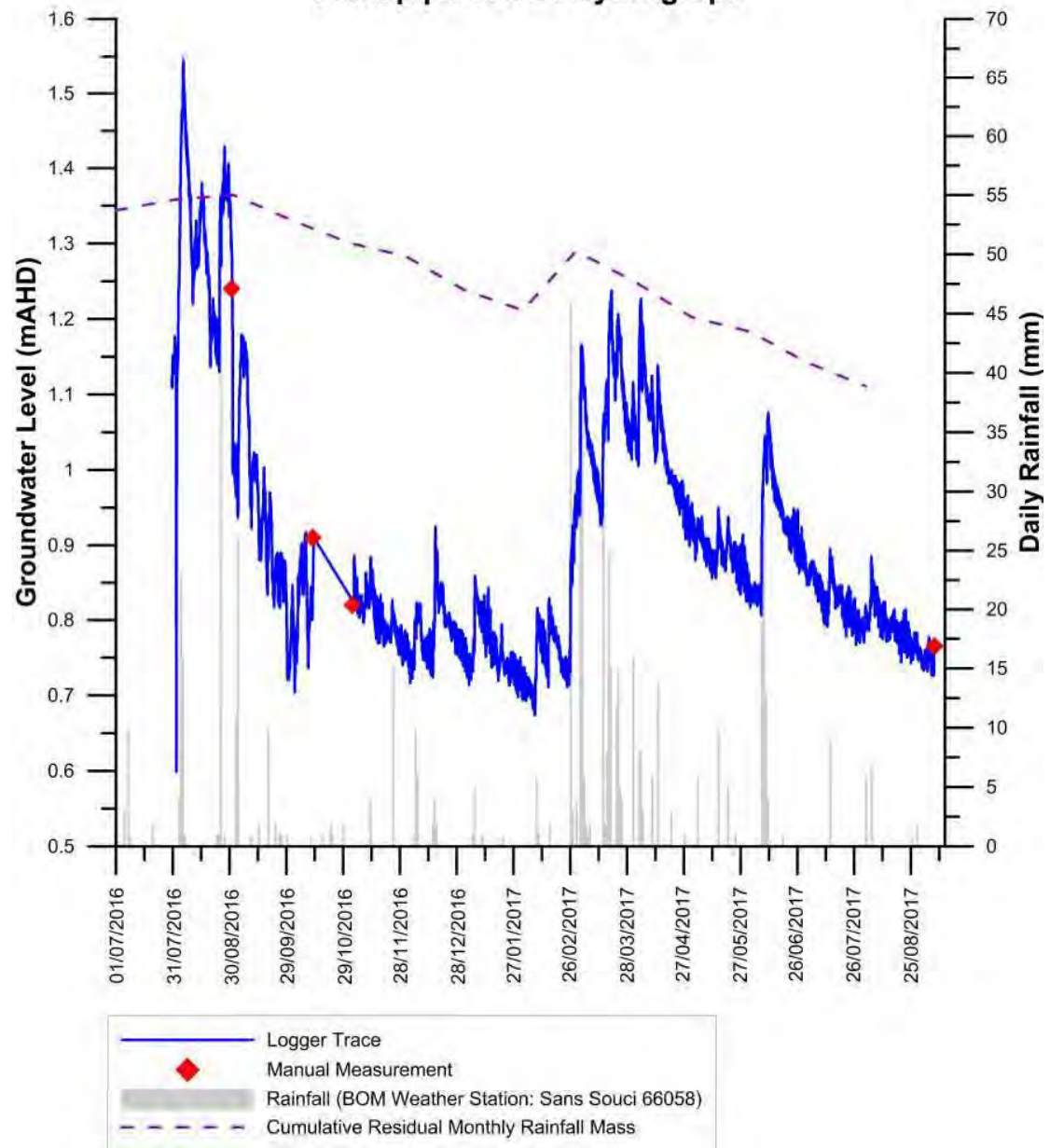
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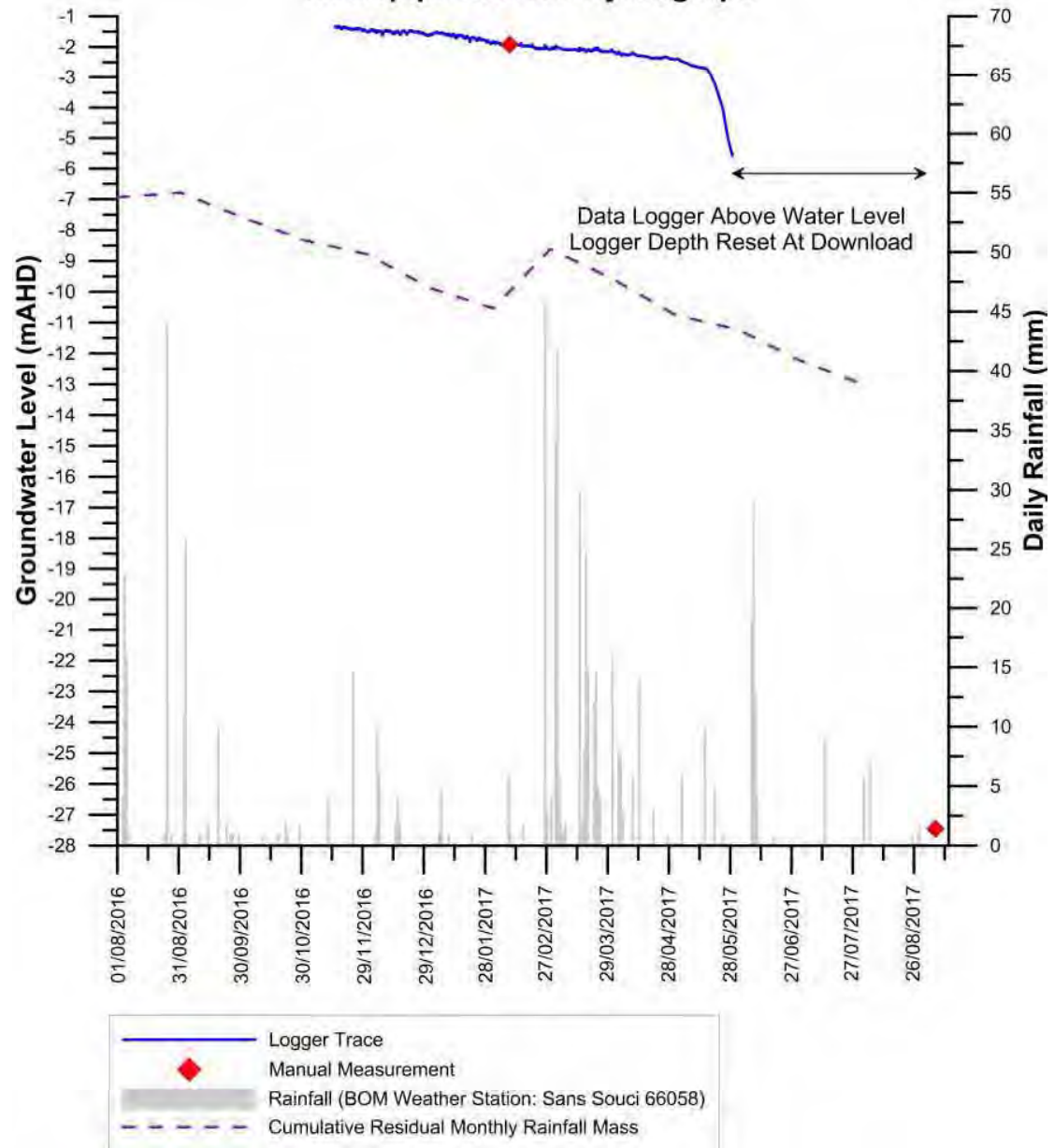
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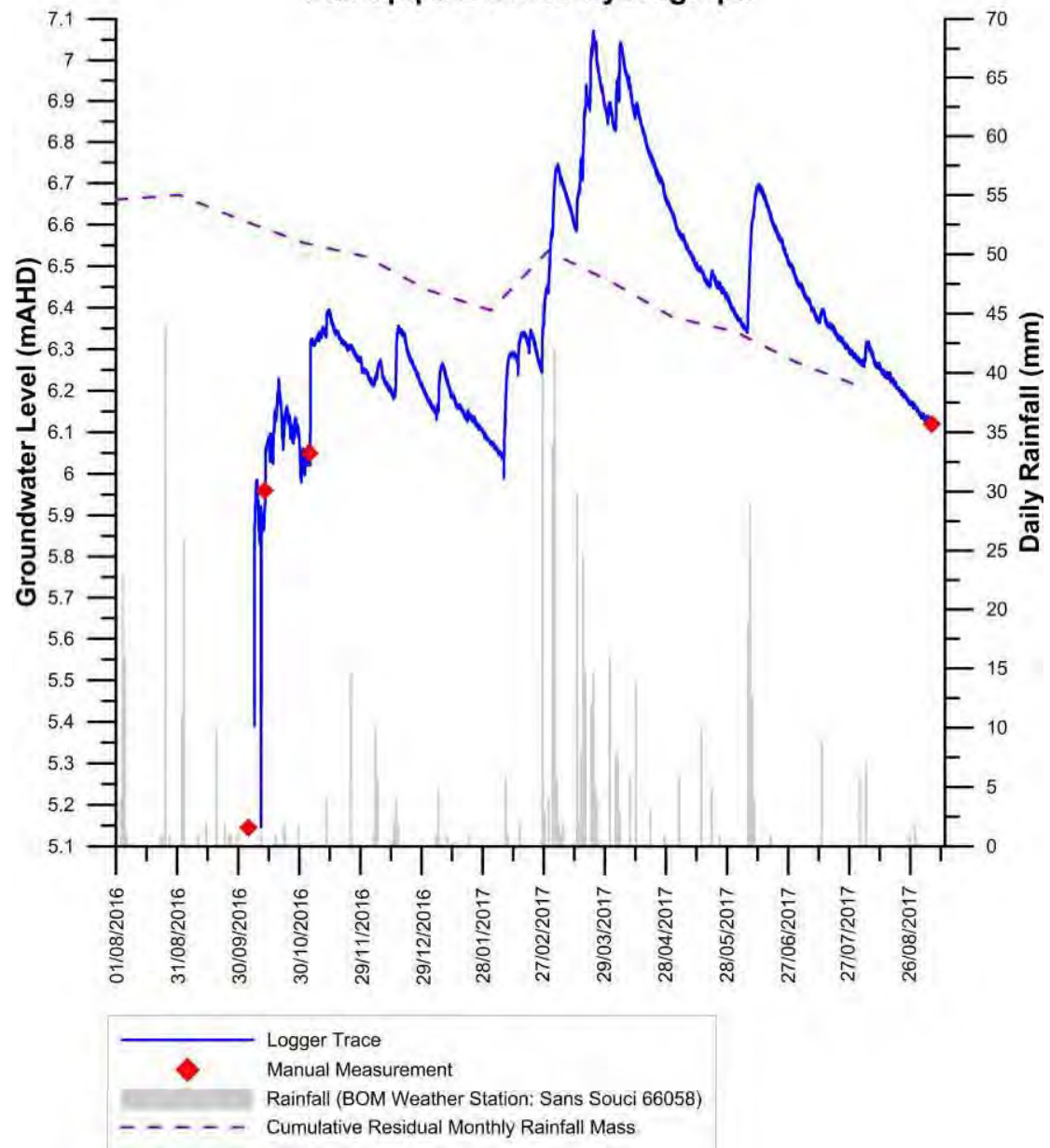
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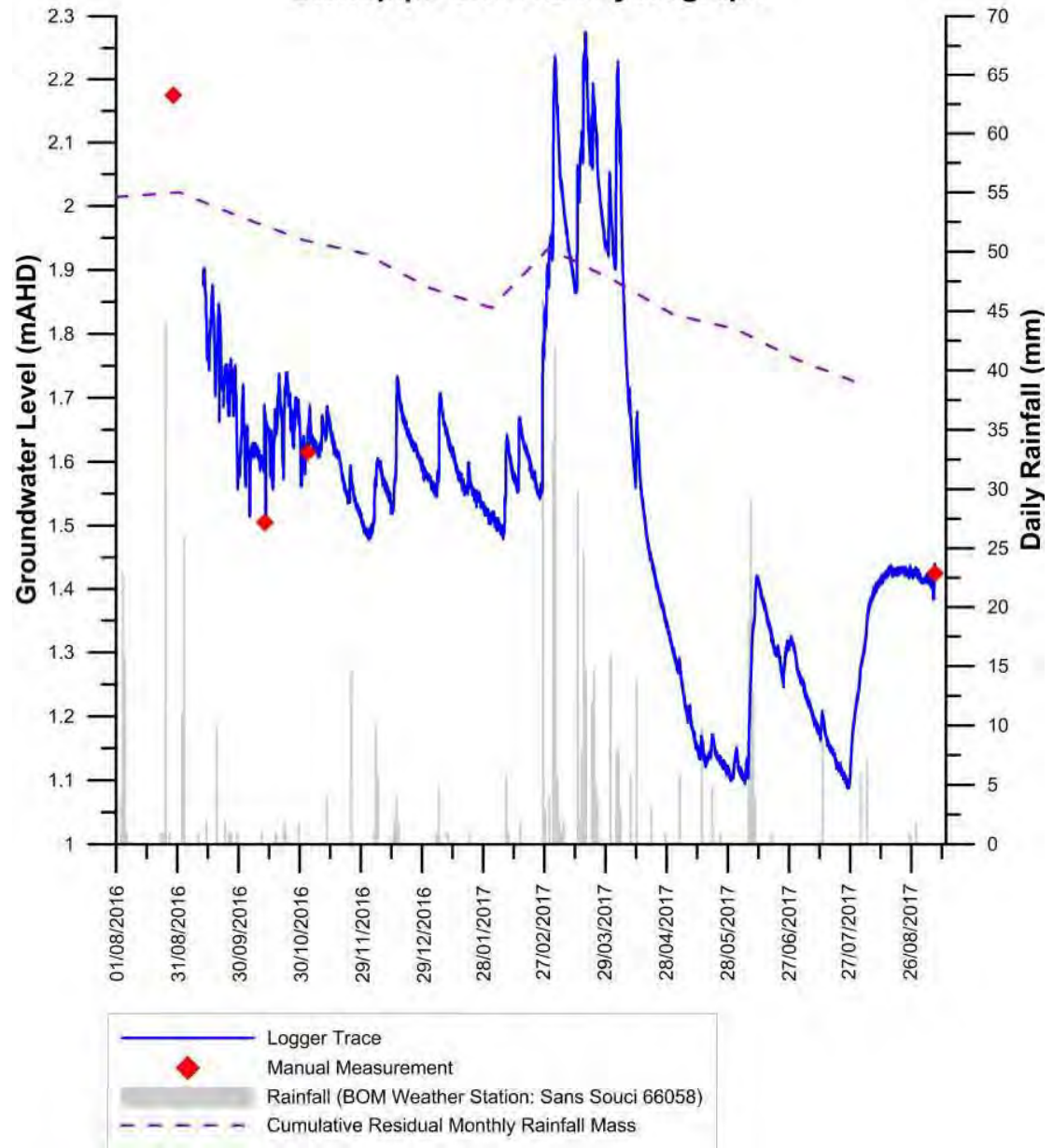
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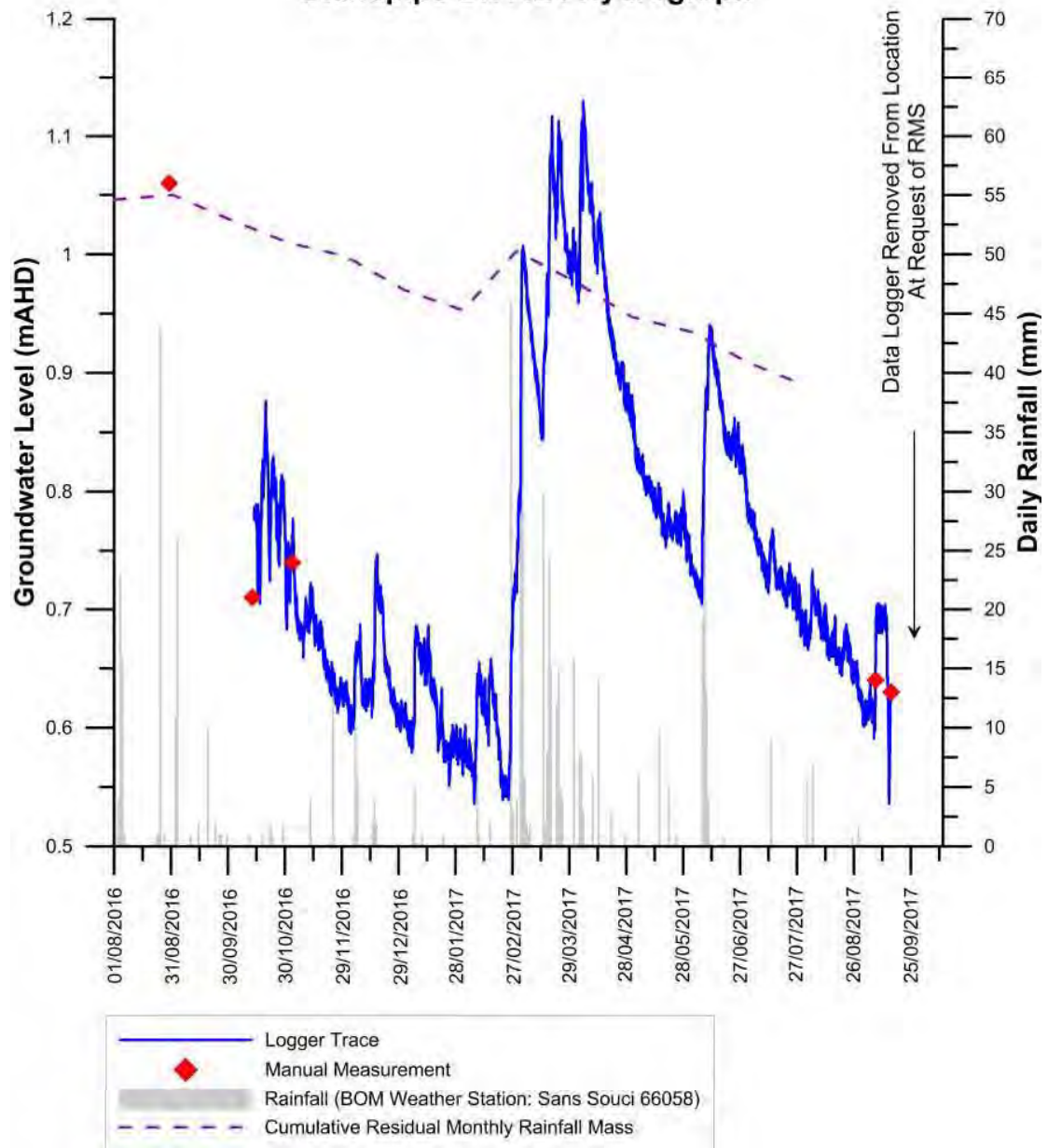
Standpipe BH1102 Hydrograph



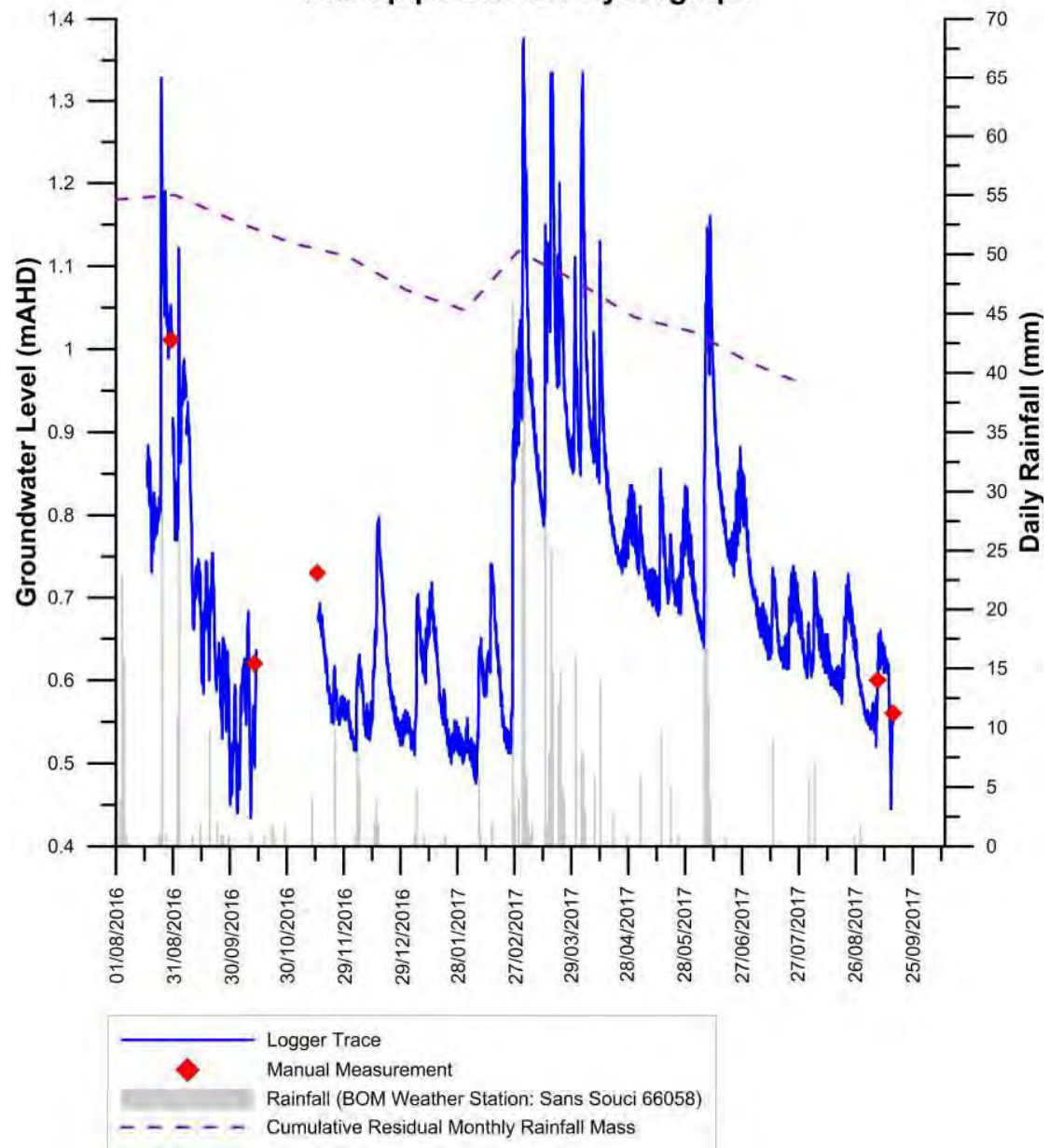
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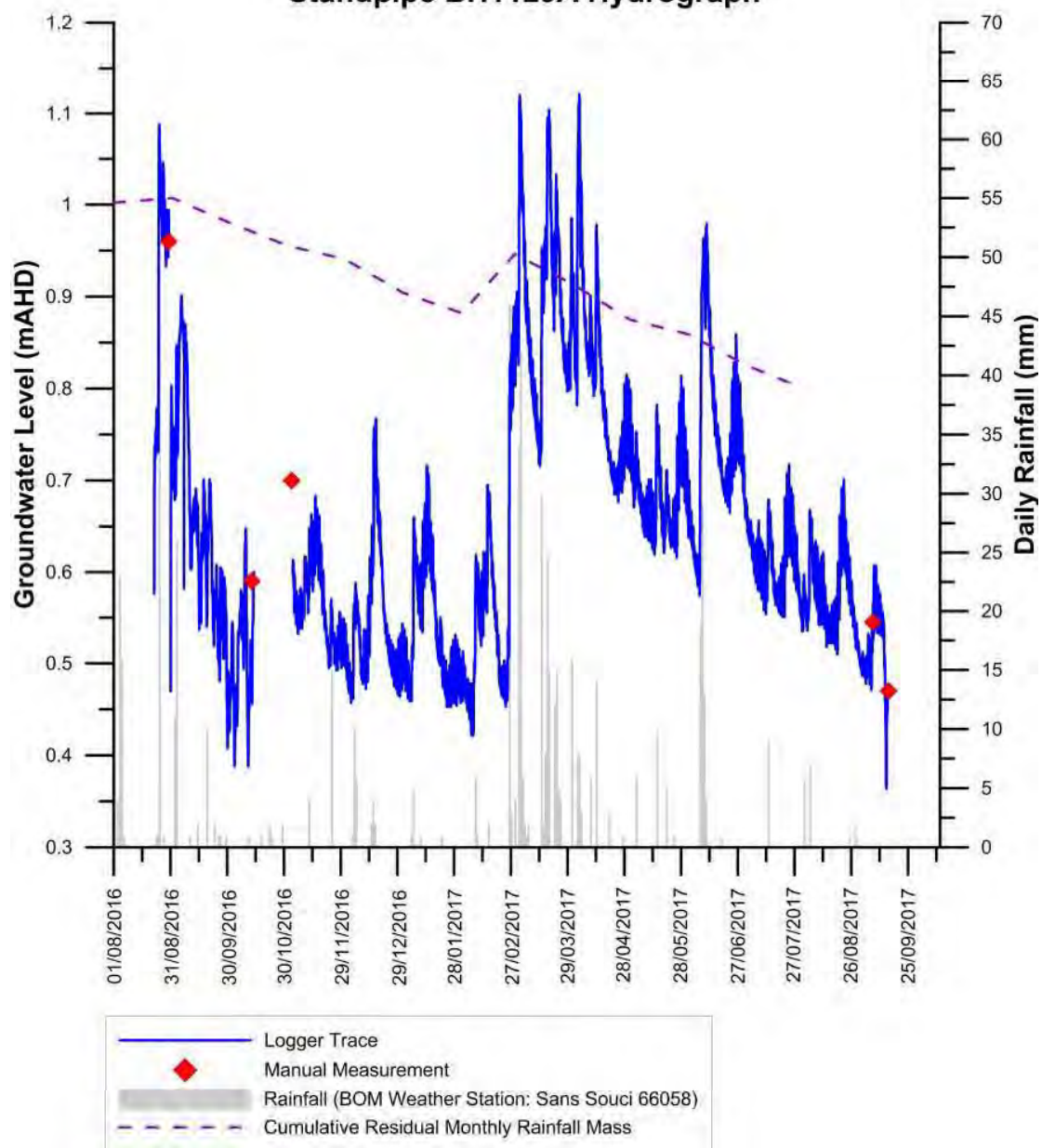
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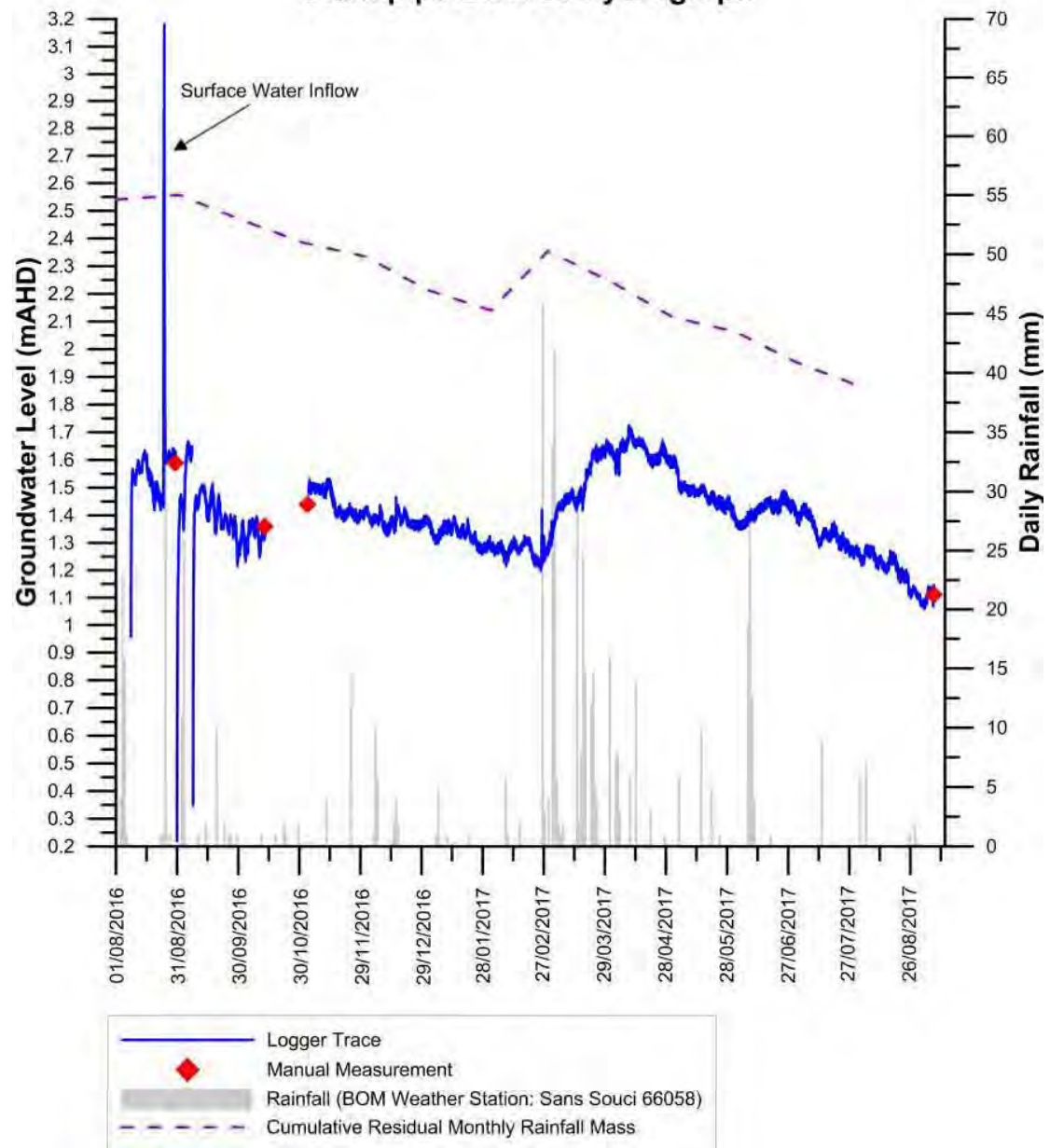
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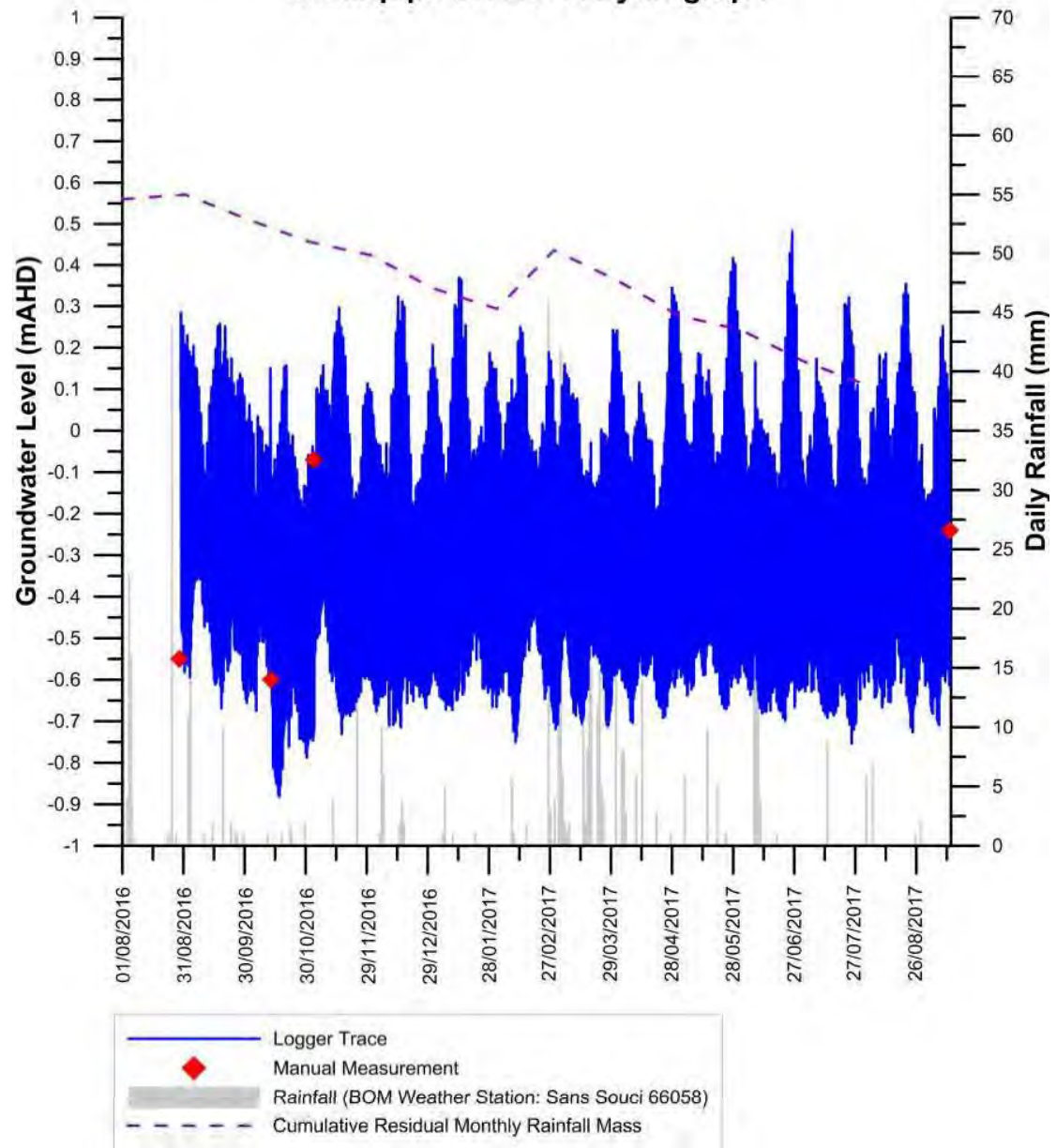
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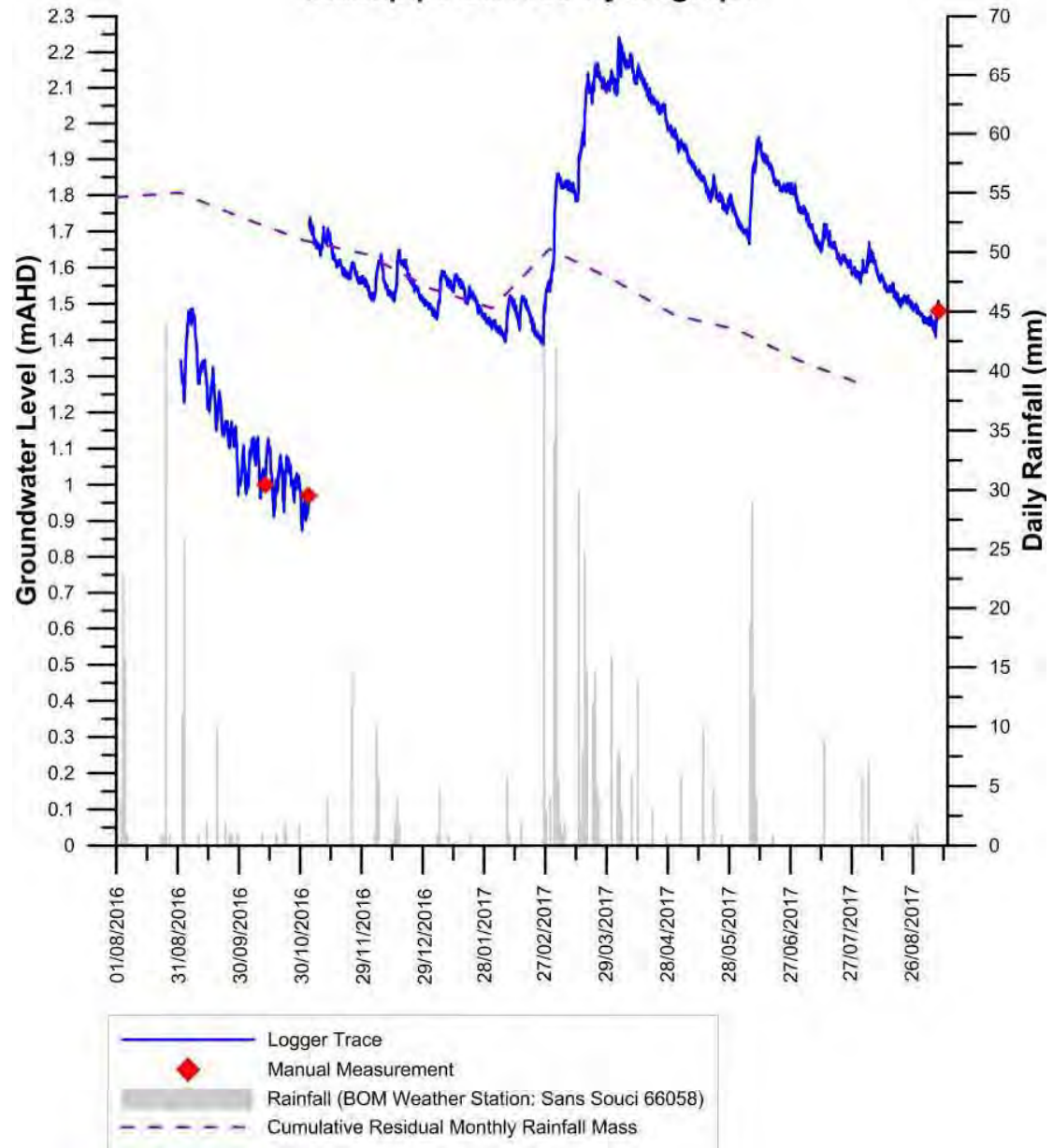
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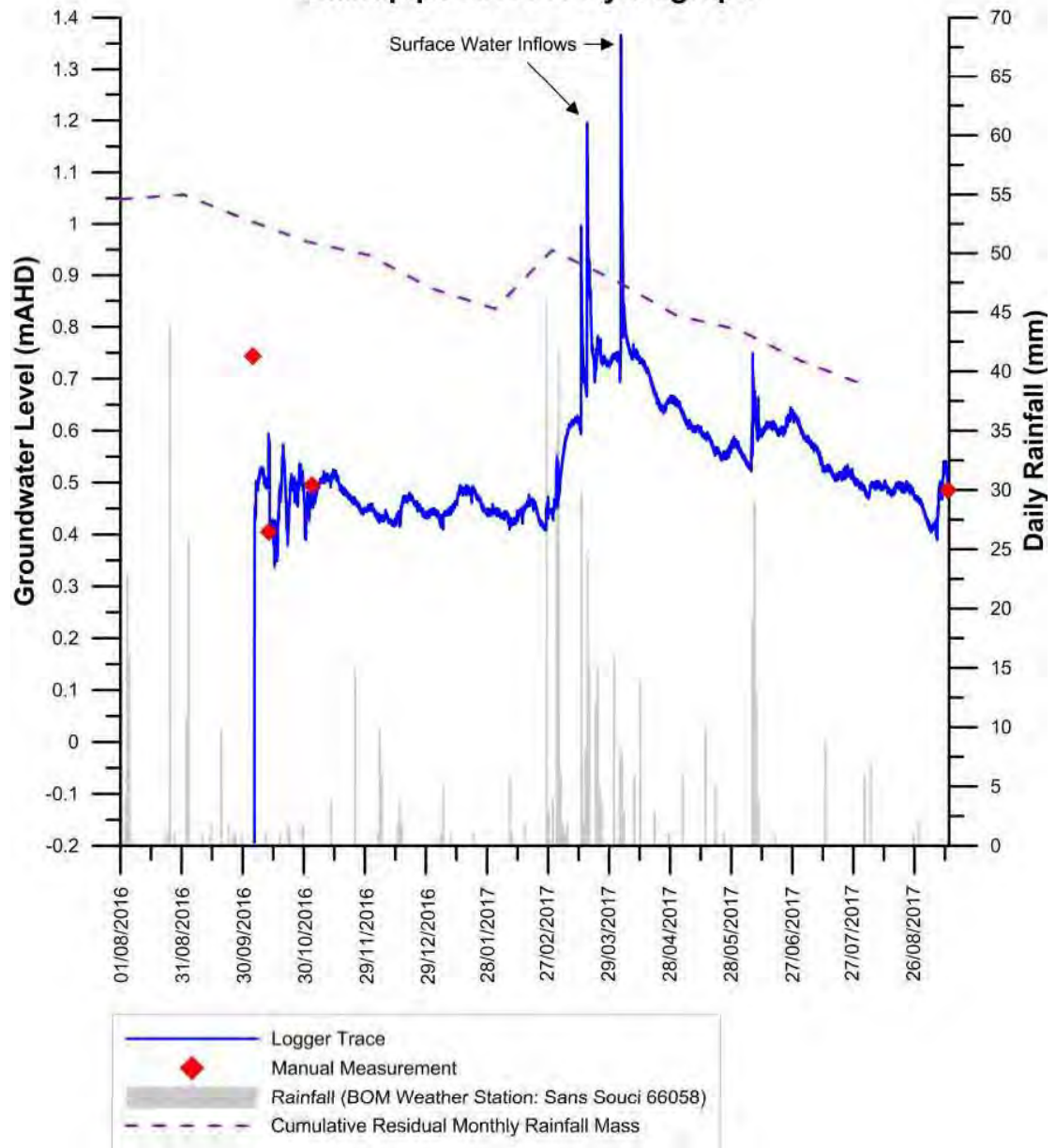
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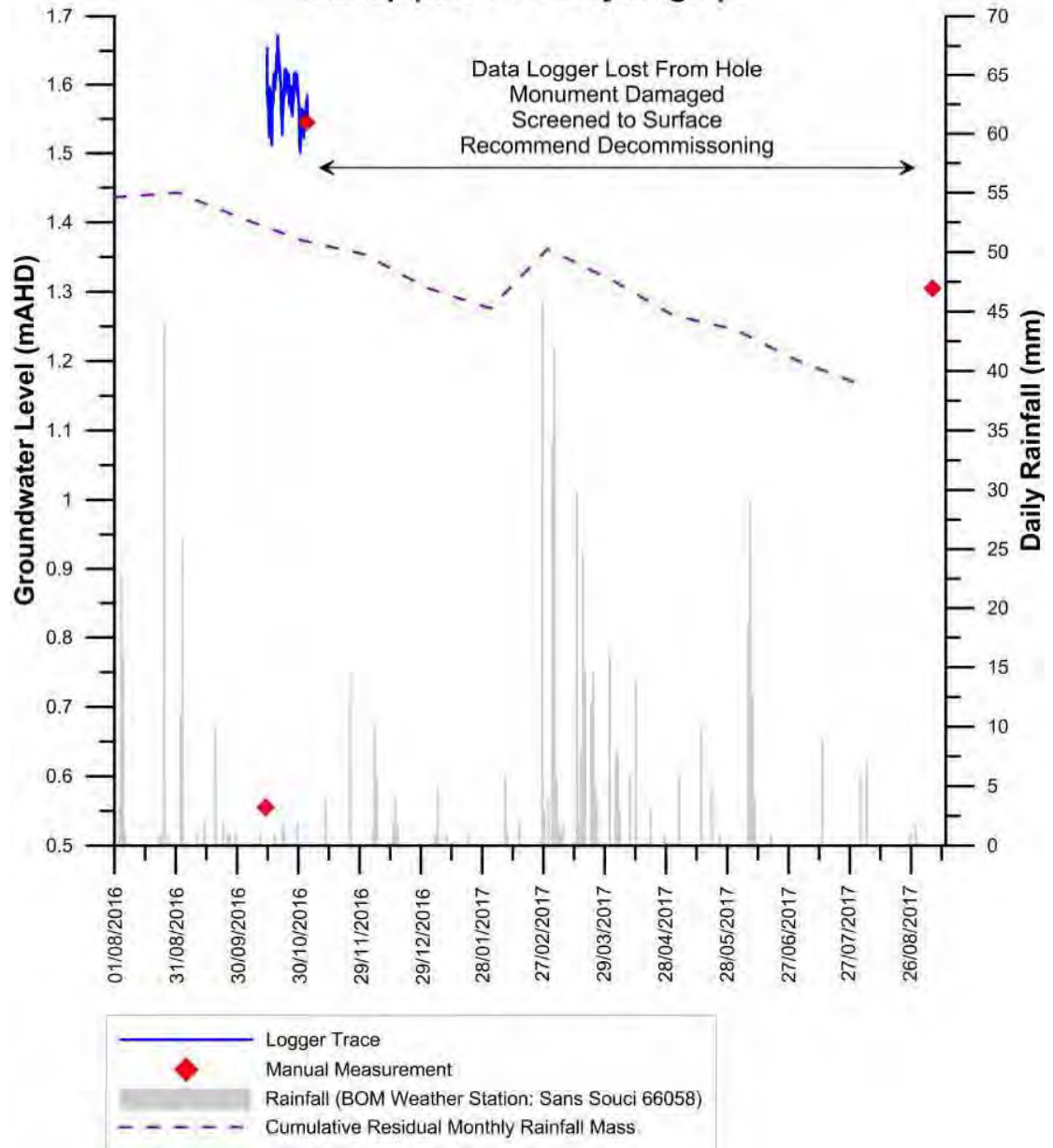
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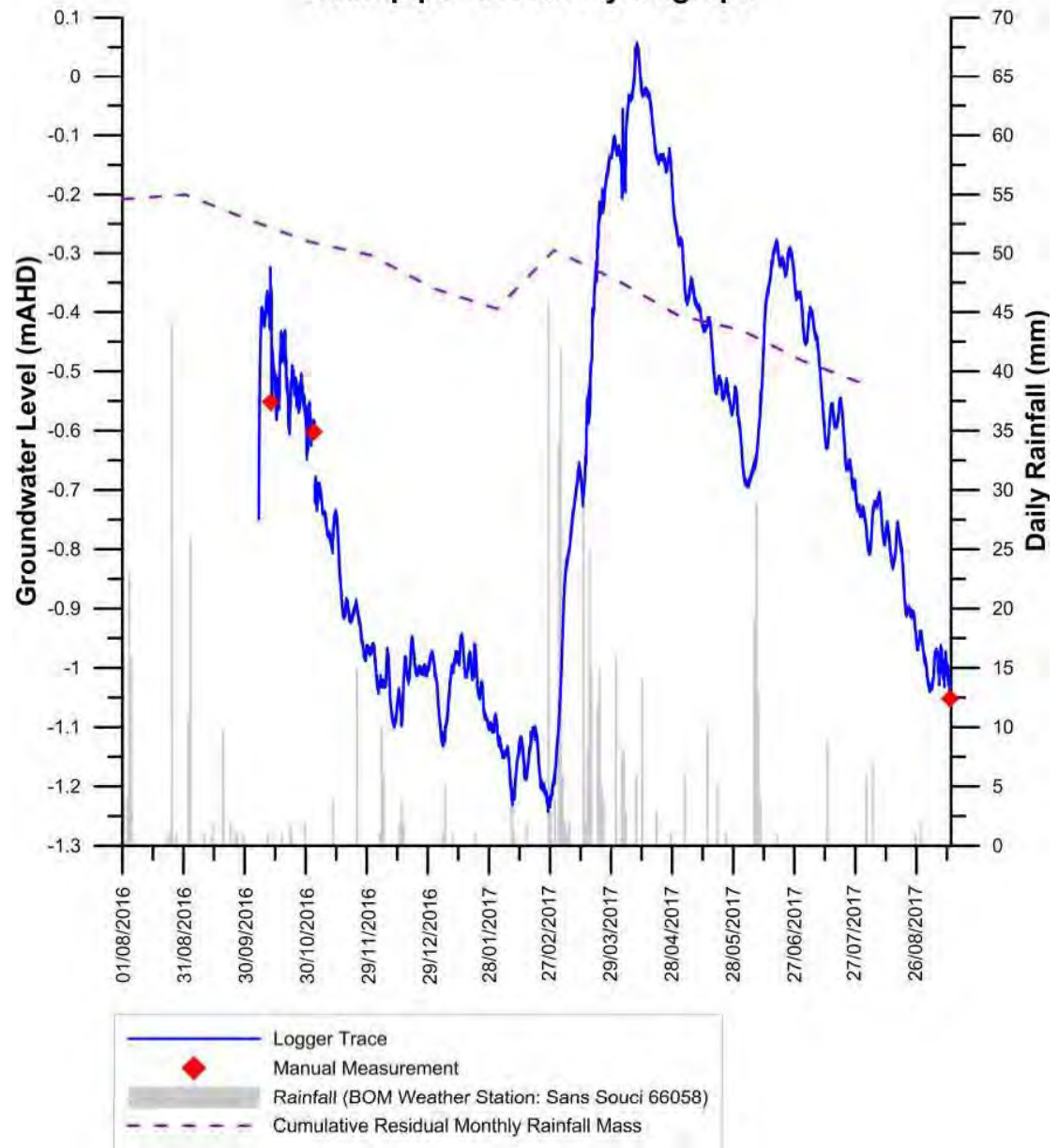
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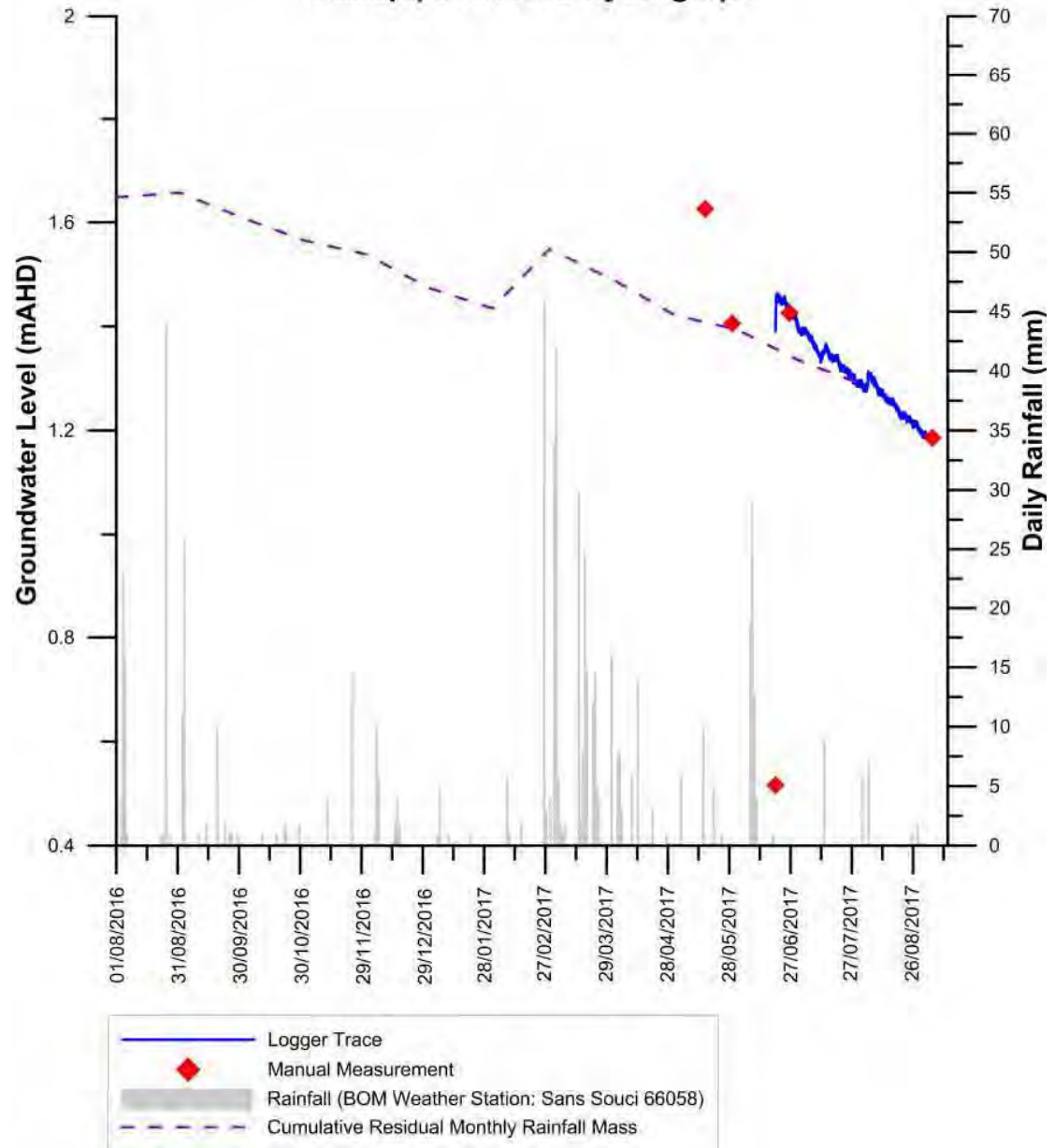
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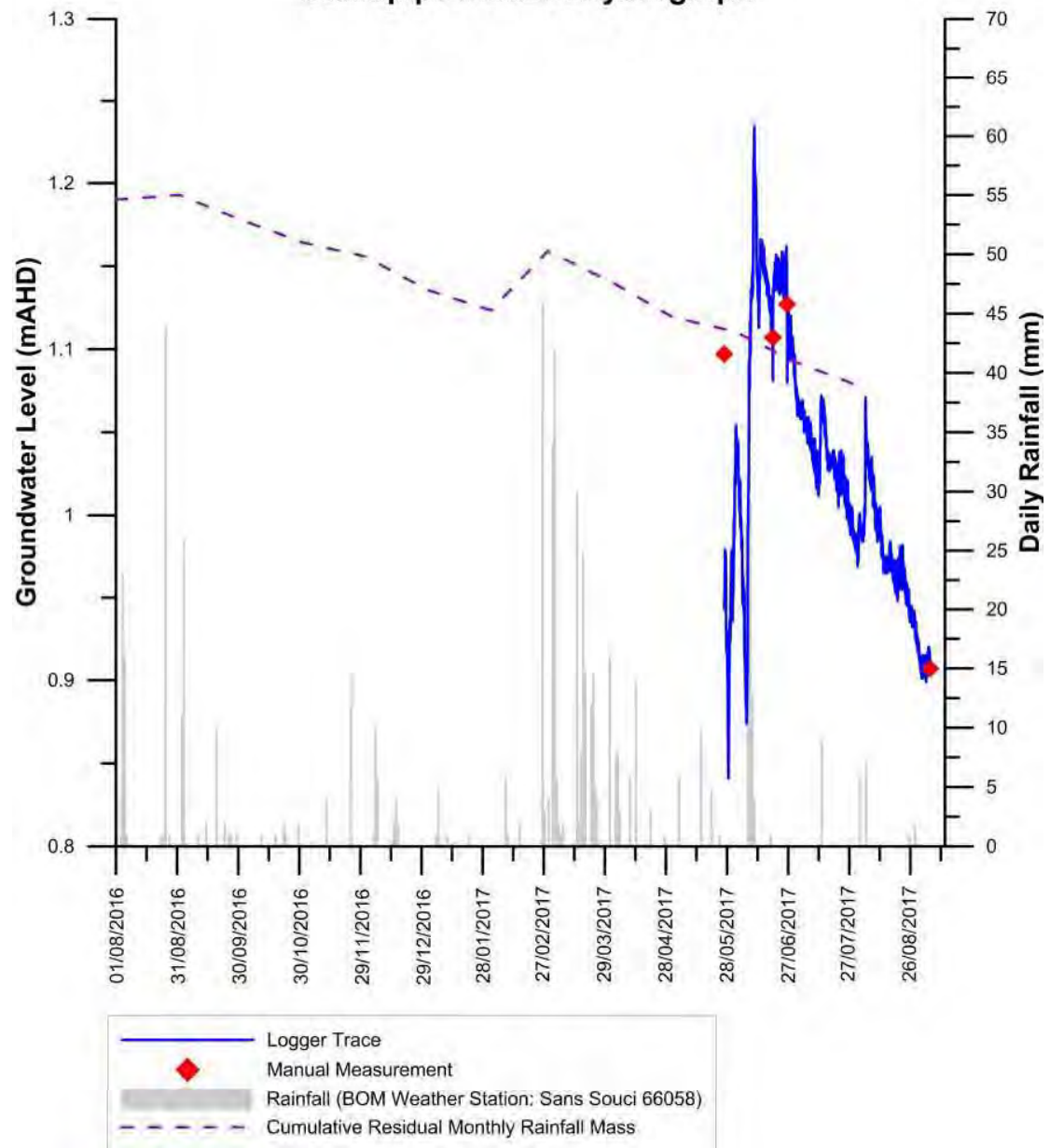
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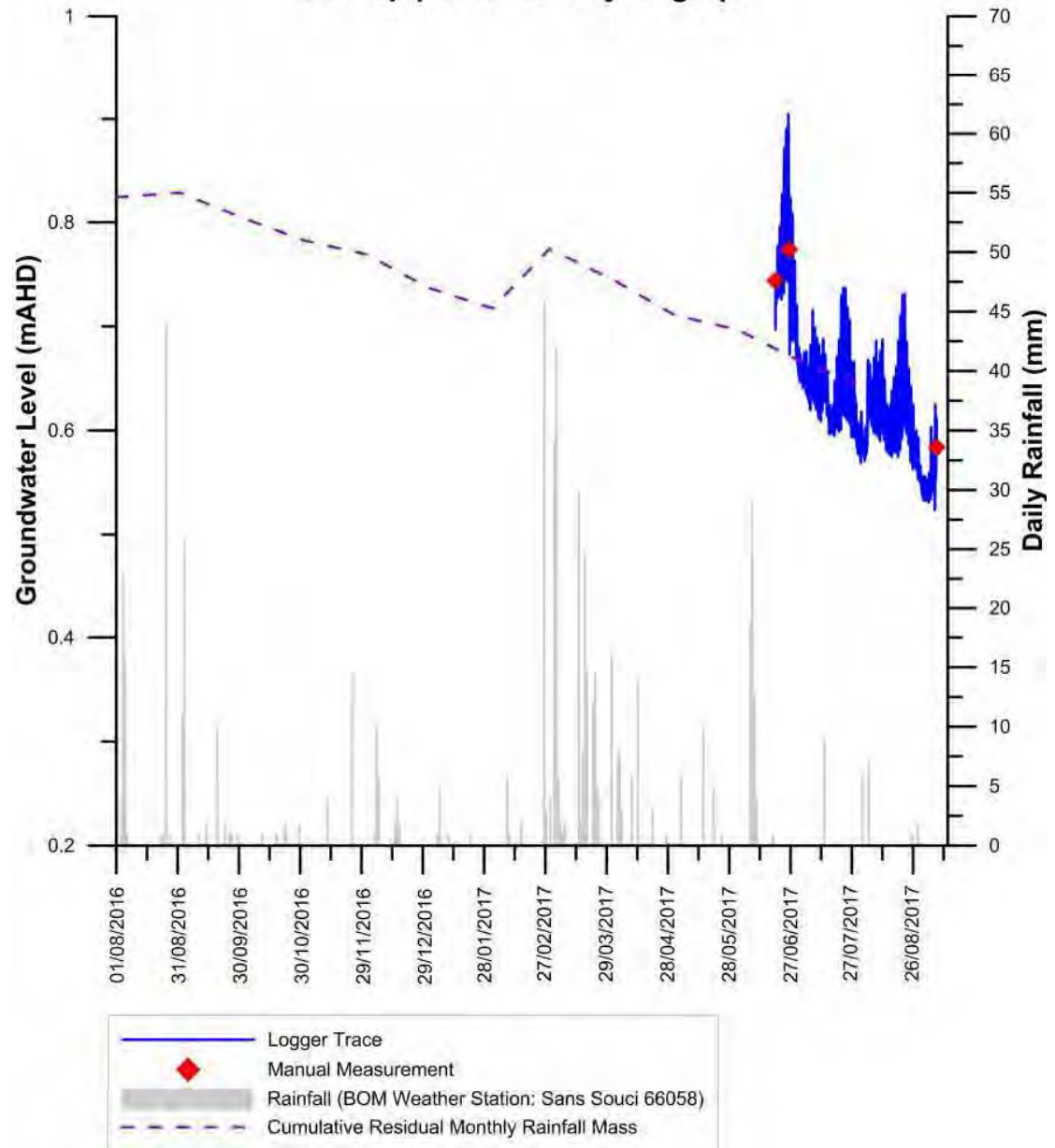
Standpipe BH1212 Hydrograph



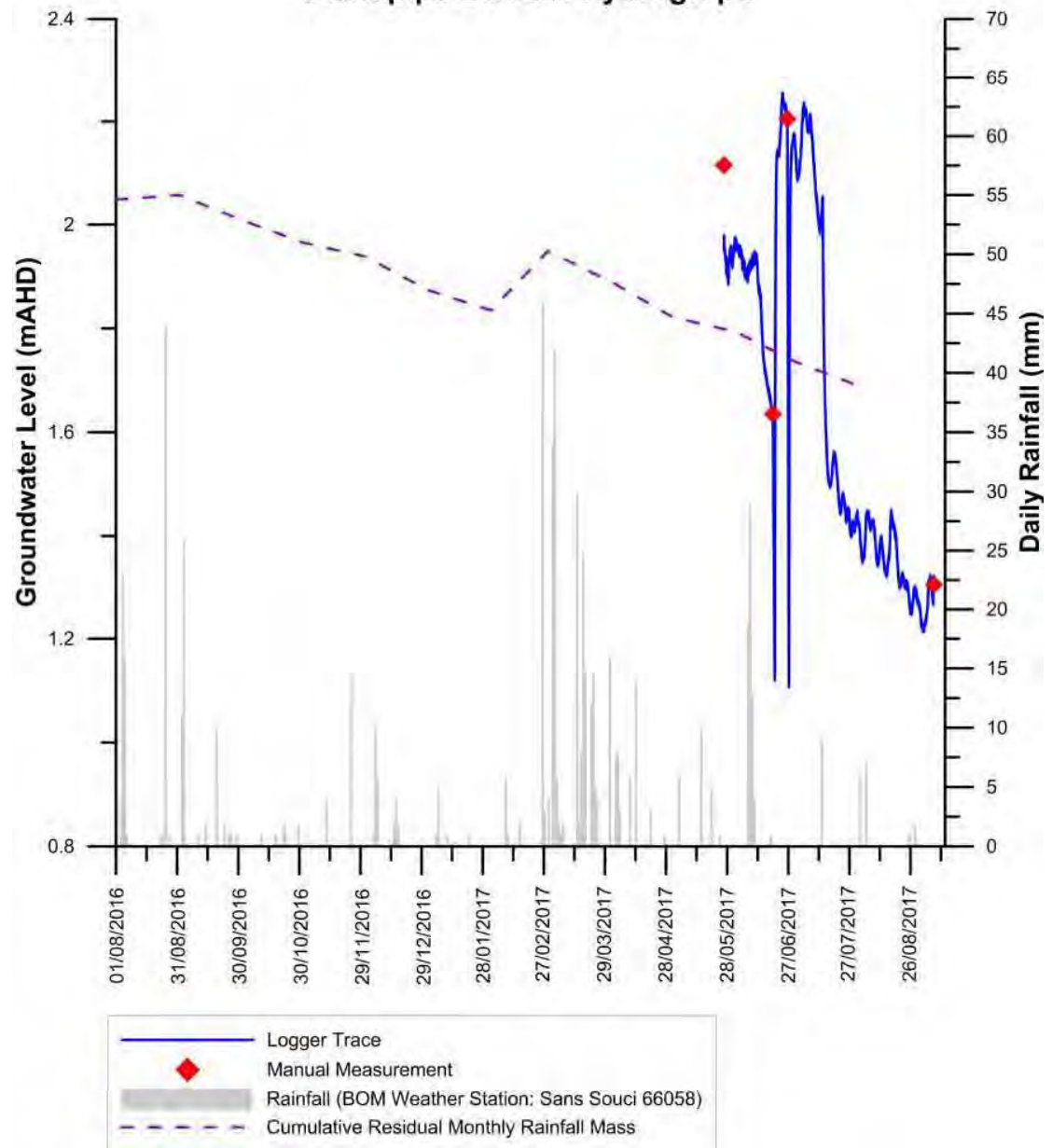
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Standpipe BH1227 Hydrograph



Standpipe BH1229 Hydrograph



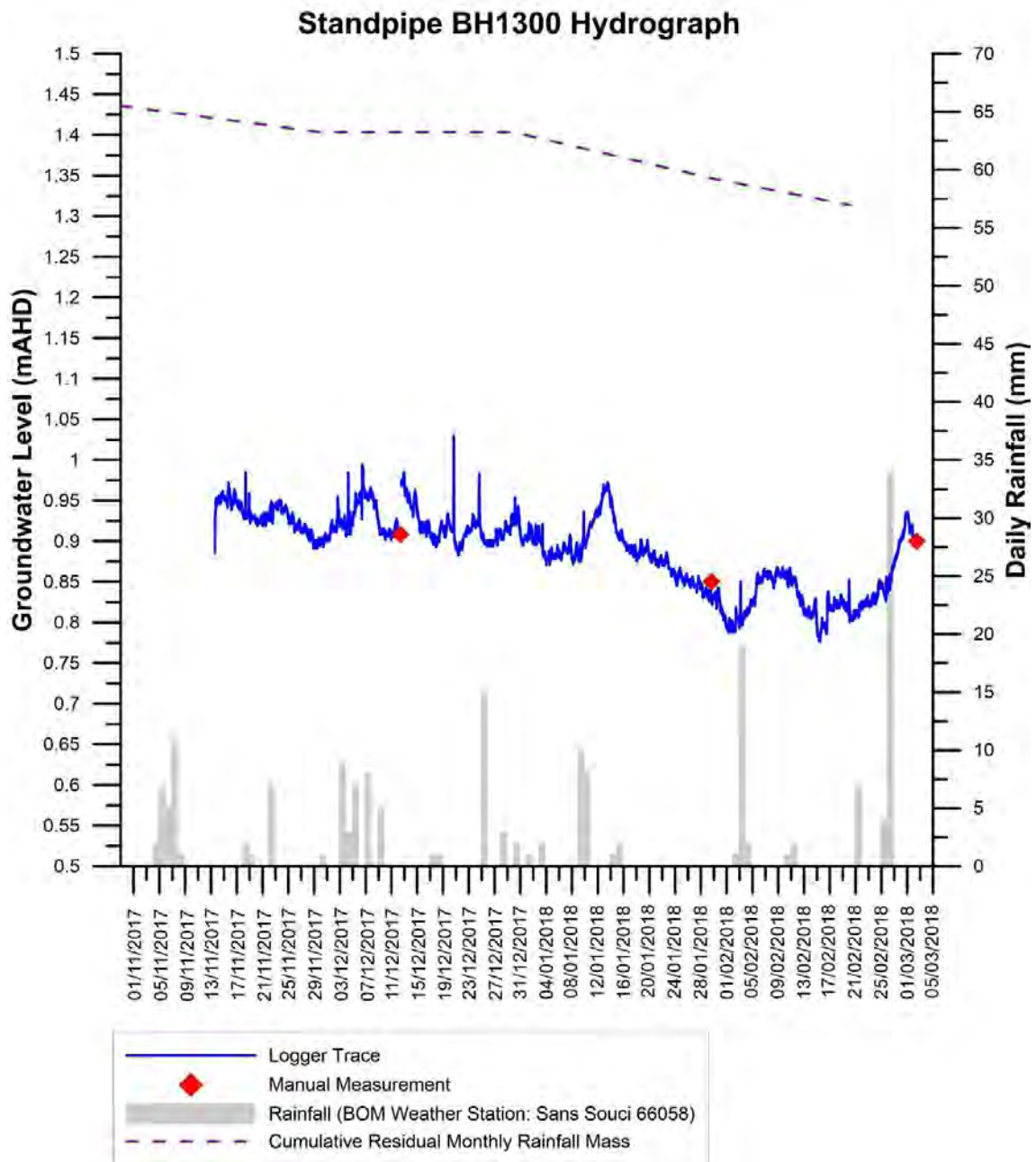


Figure 3. Groundwater hydrograph BH1300 with rainfall

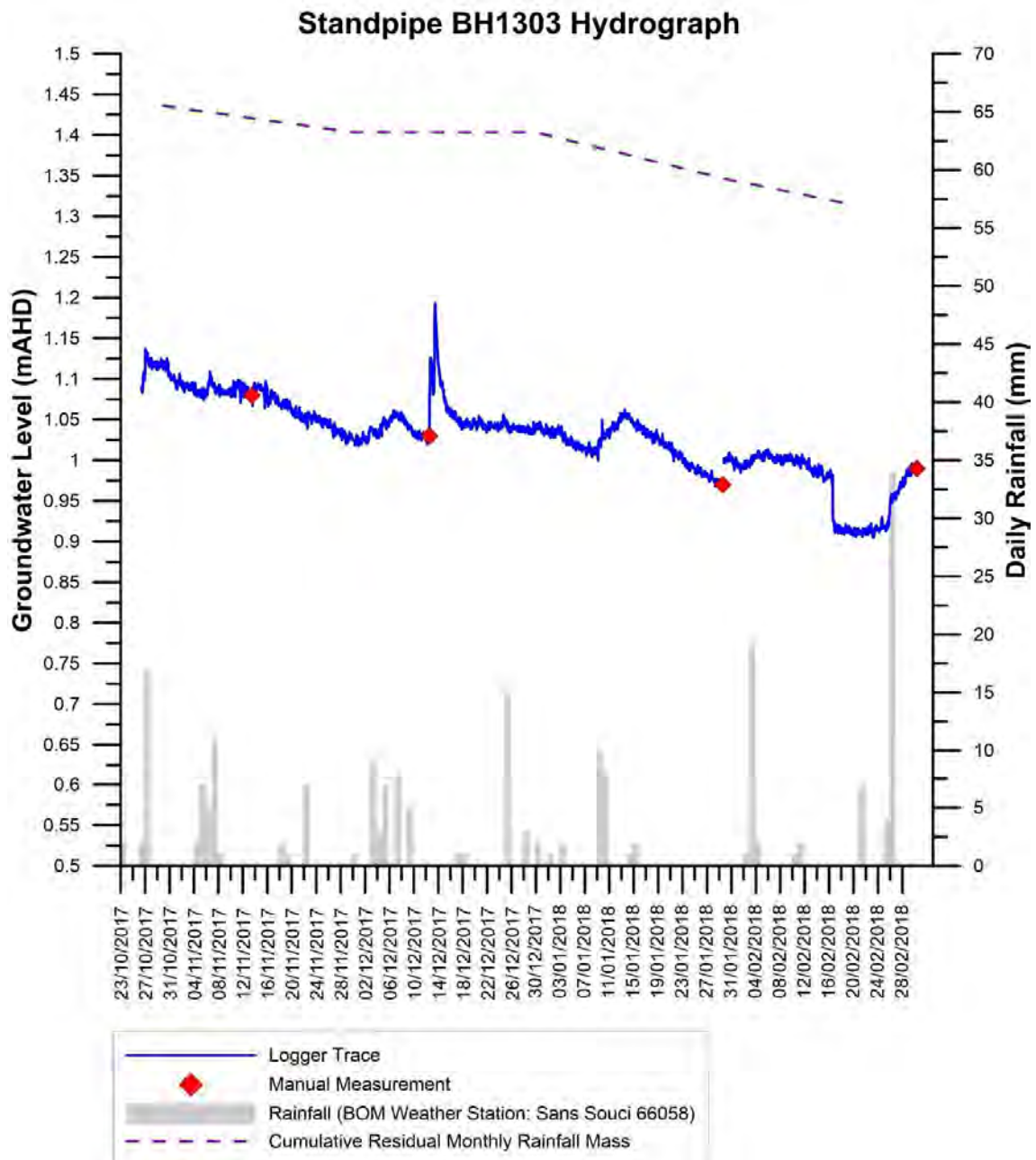


Figure 4. Groundwater hydrograph BH1303 with rainfall

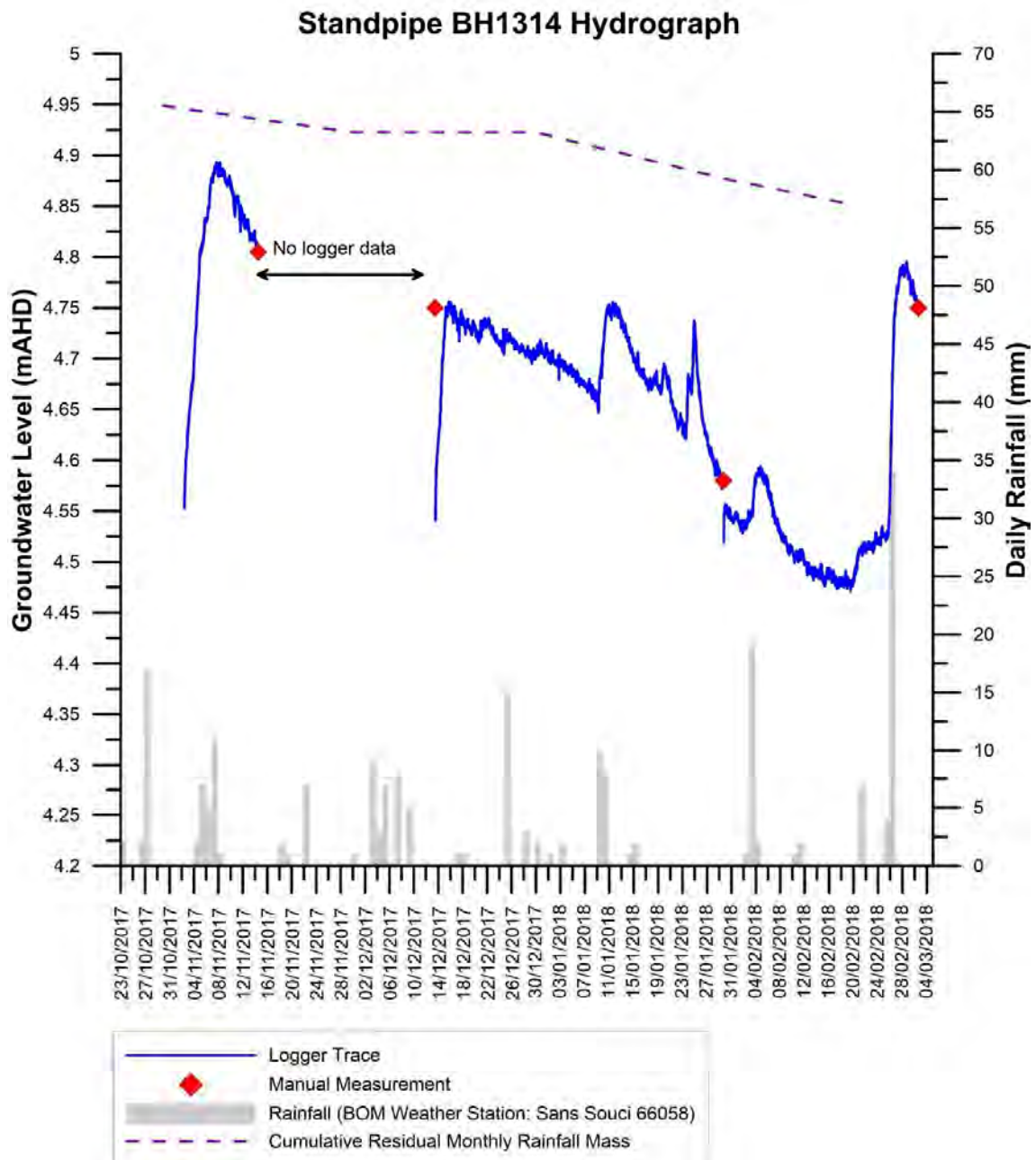


Figure 5. Groundwater hydrograph BH1314 with rainfall

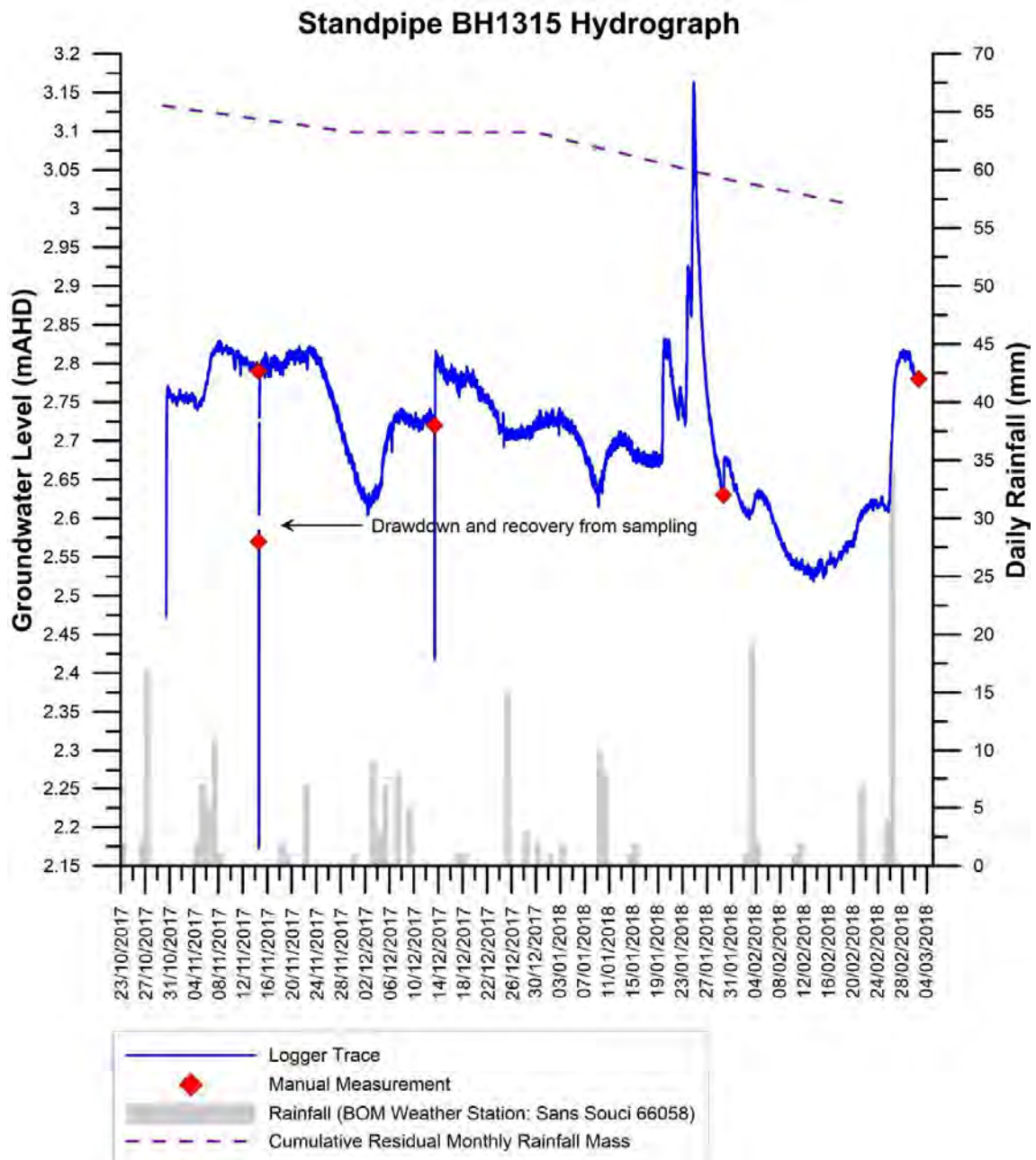


Figure 6. Groundwater hydrograph BH1315 with rainfall

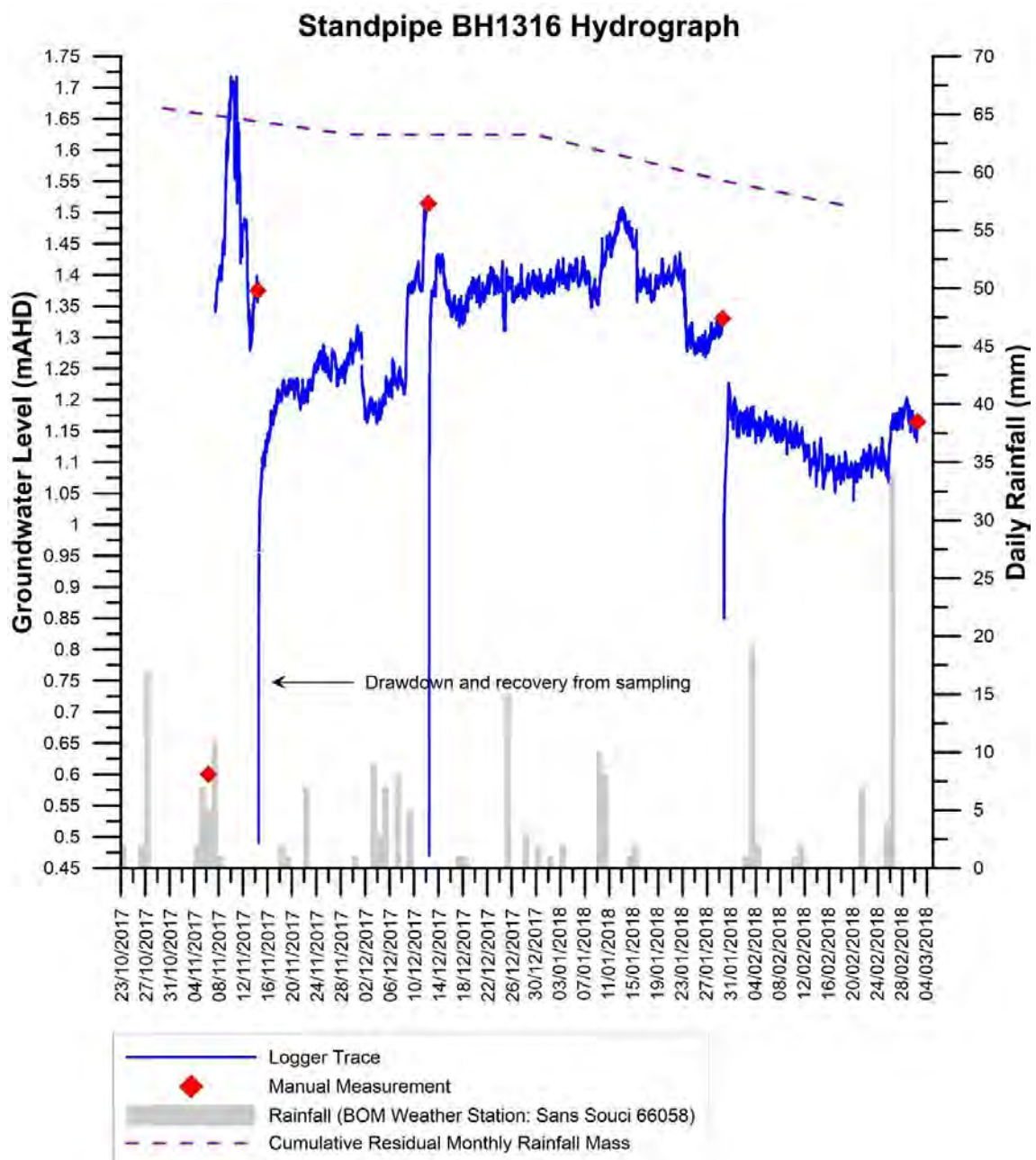


Figure 7. Groundwater hydrograph BH1316 with rainfall

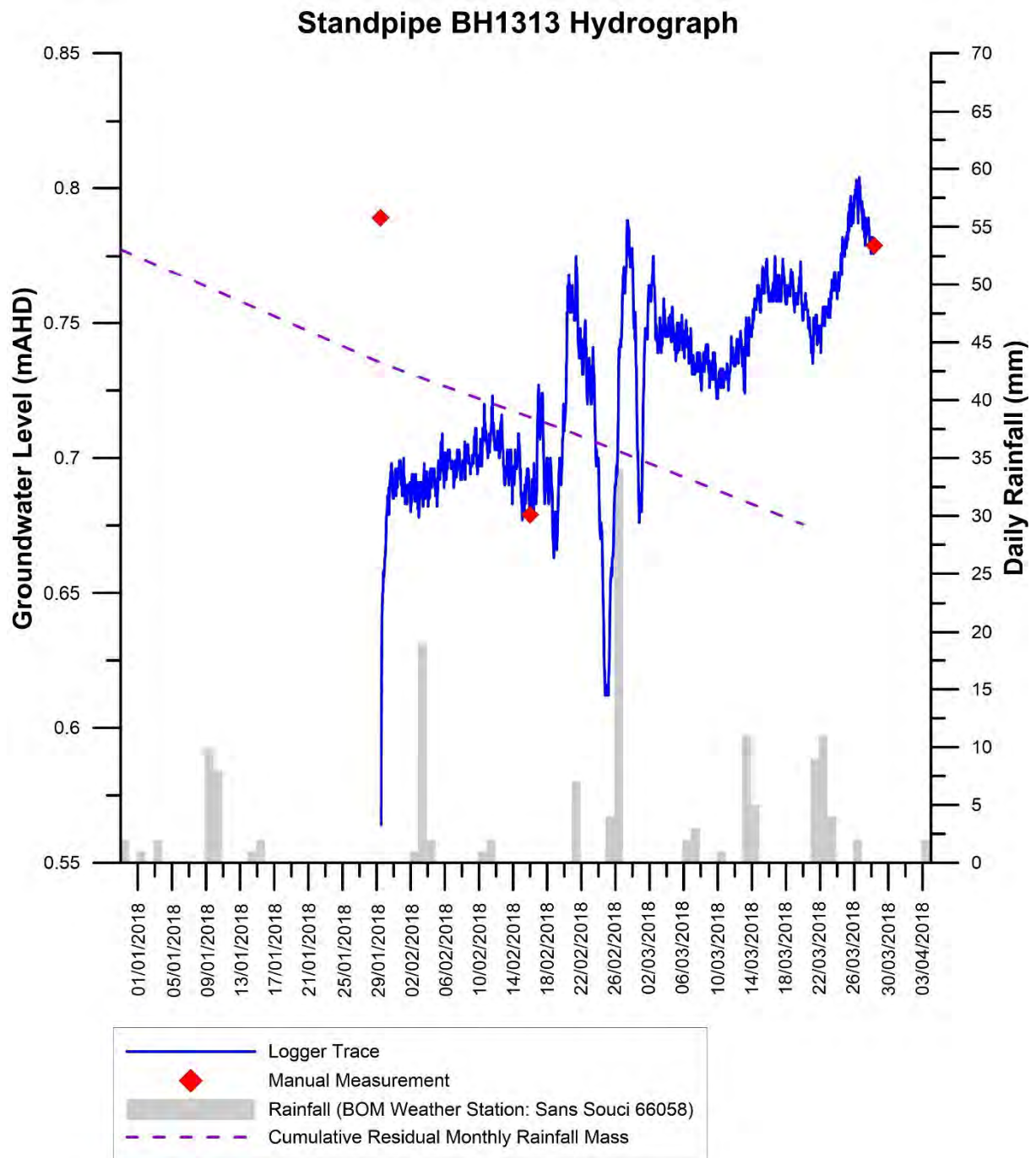


Figure 2-1. Groundwater hydrograph BH1313 with rainfall

Standpipe BH1318 Hydrograph

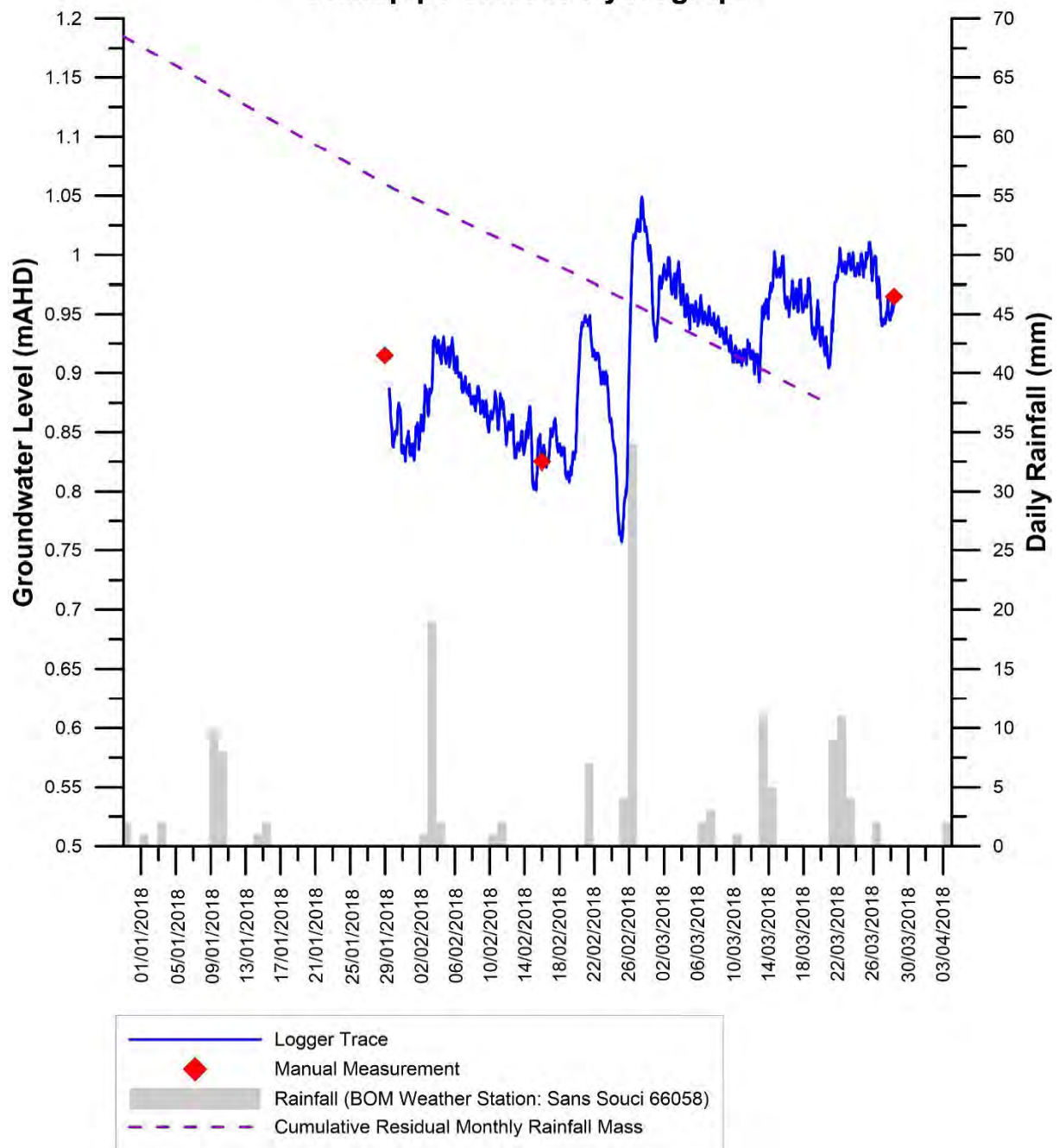


Figure 2-2. Groundwater hydrograph BH1318 with rainfall

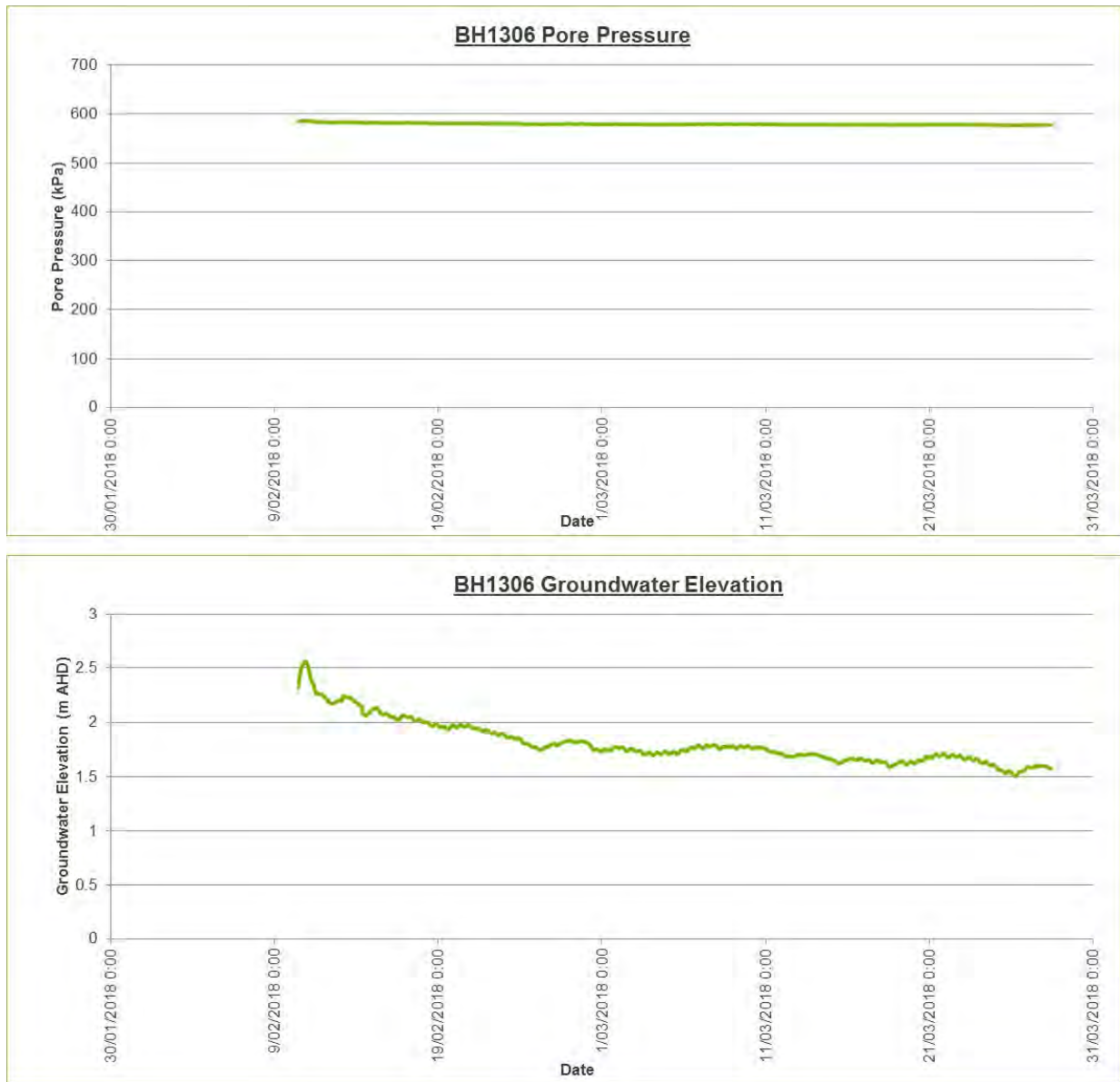


Figure 3-1. Pore pressure plot and calculated groundwater hydrograph VWP BH1306

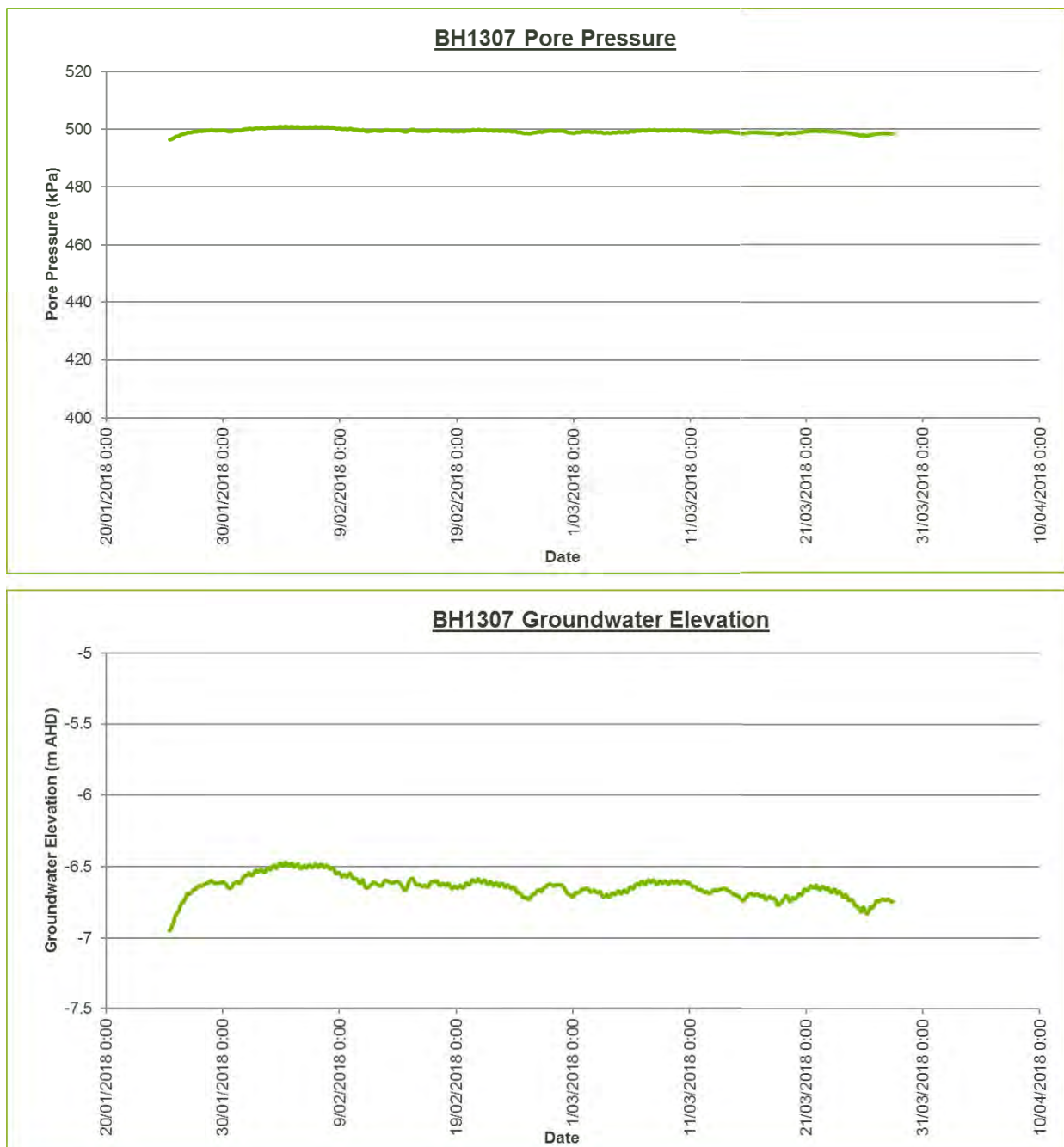


Figure 3-2. Pore pressure plot and calculated groundwater hydrograph VWP BH1307

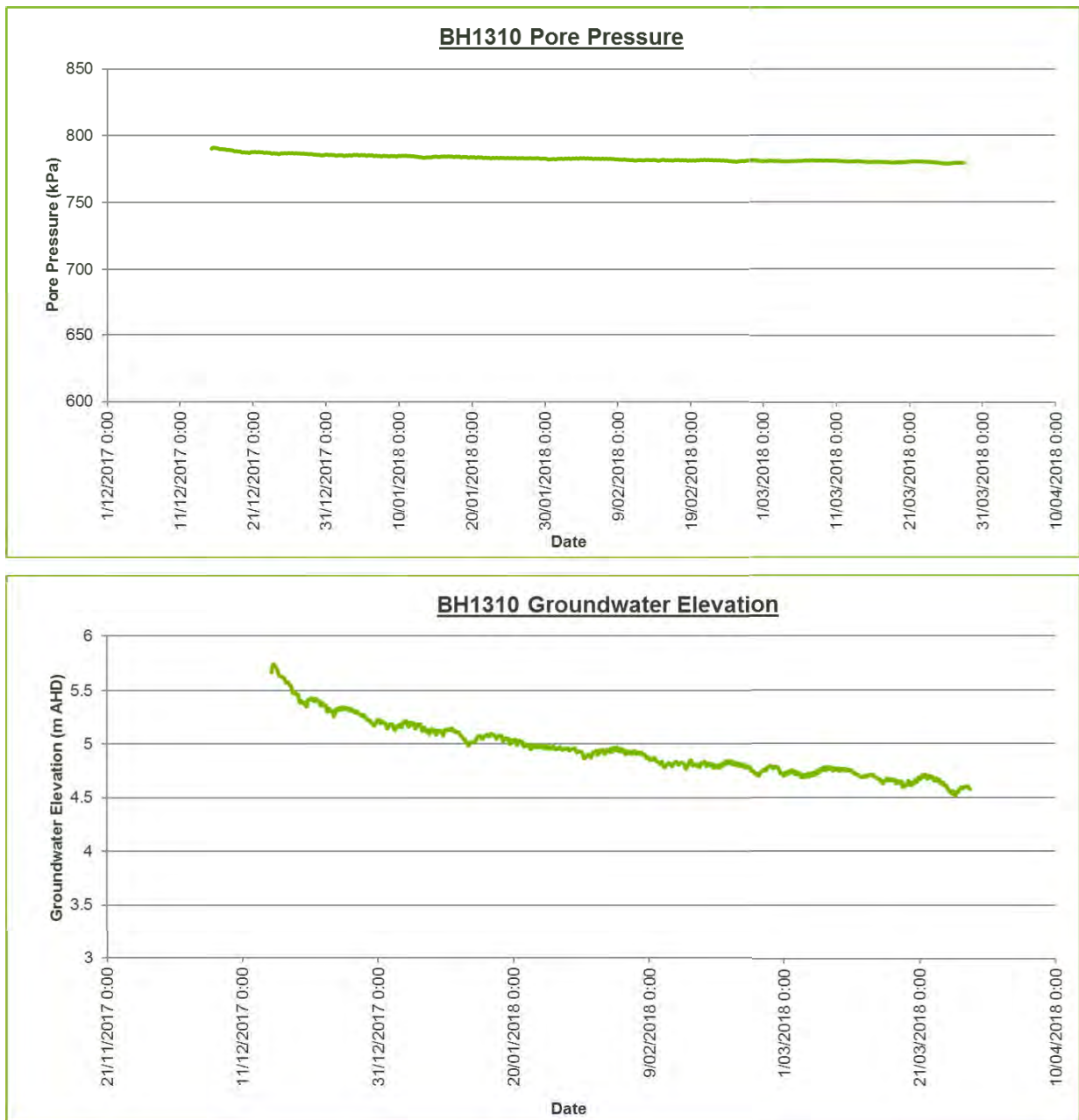


Figure 3-3. Pore pressure plot and calculated groundwater hydrograph VWP BH1310

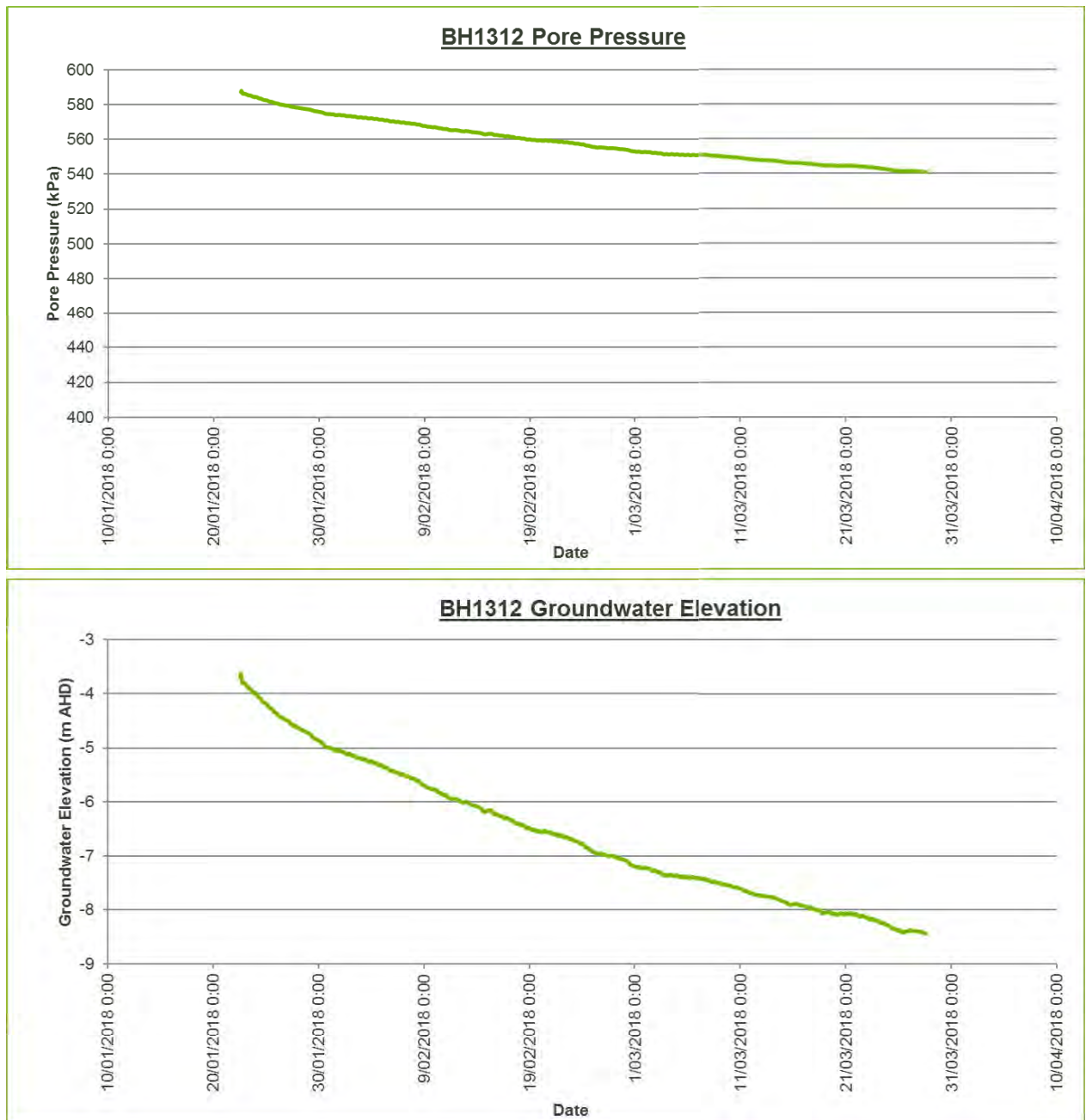
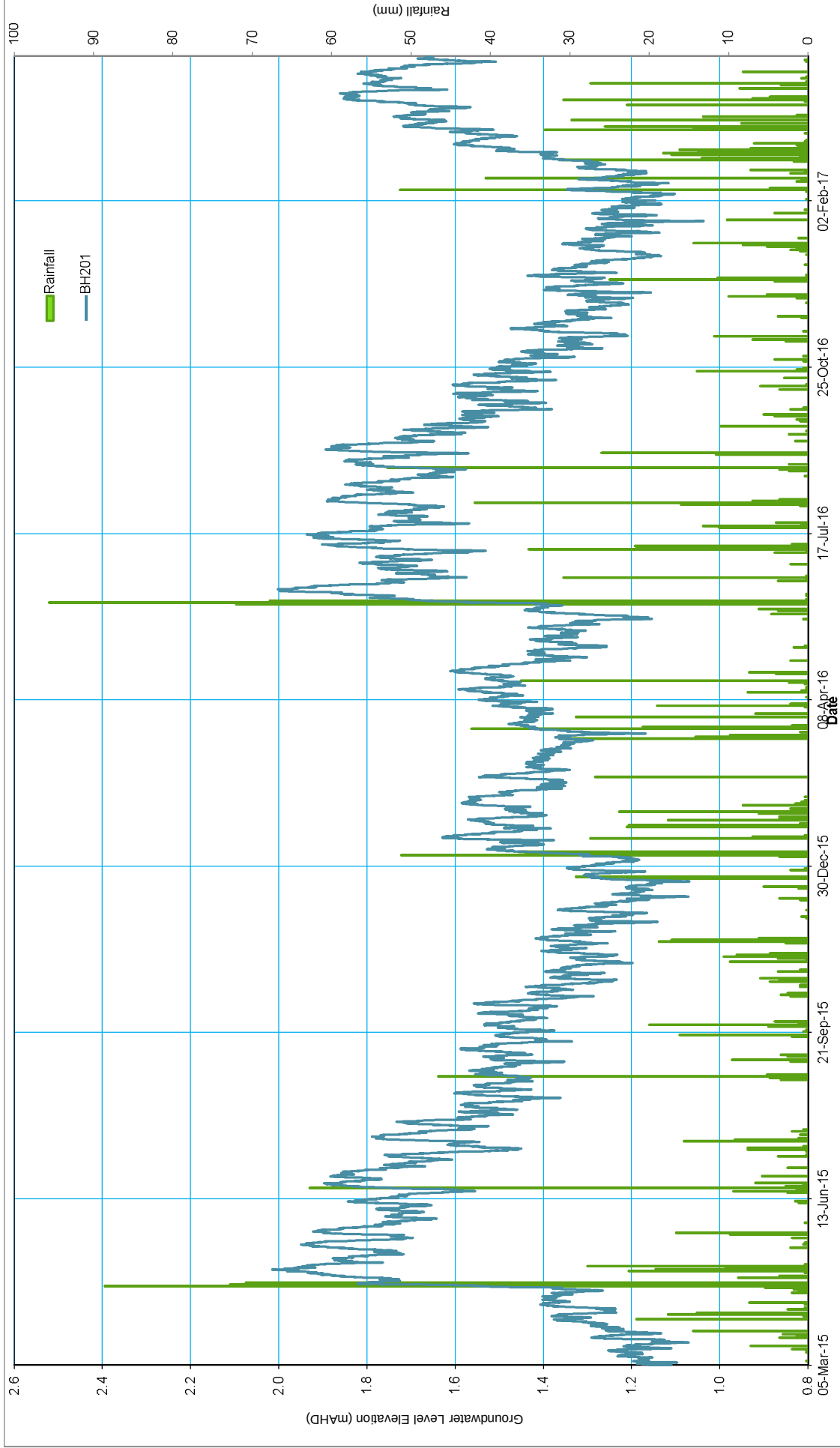


Figure 3-4. Pore pressure plot and calculated groundwater hydrograph VWP BH1312

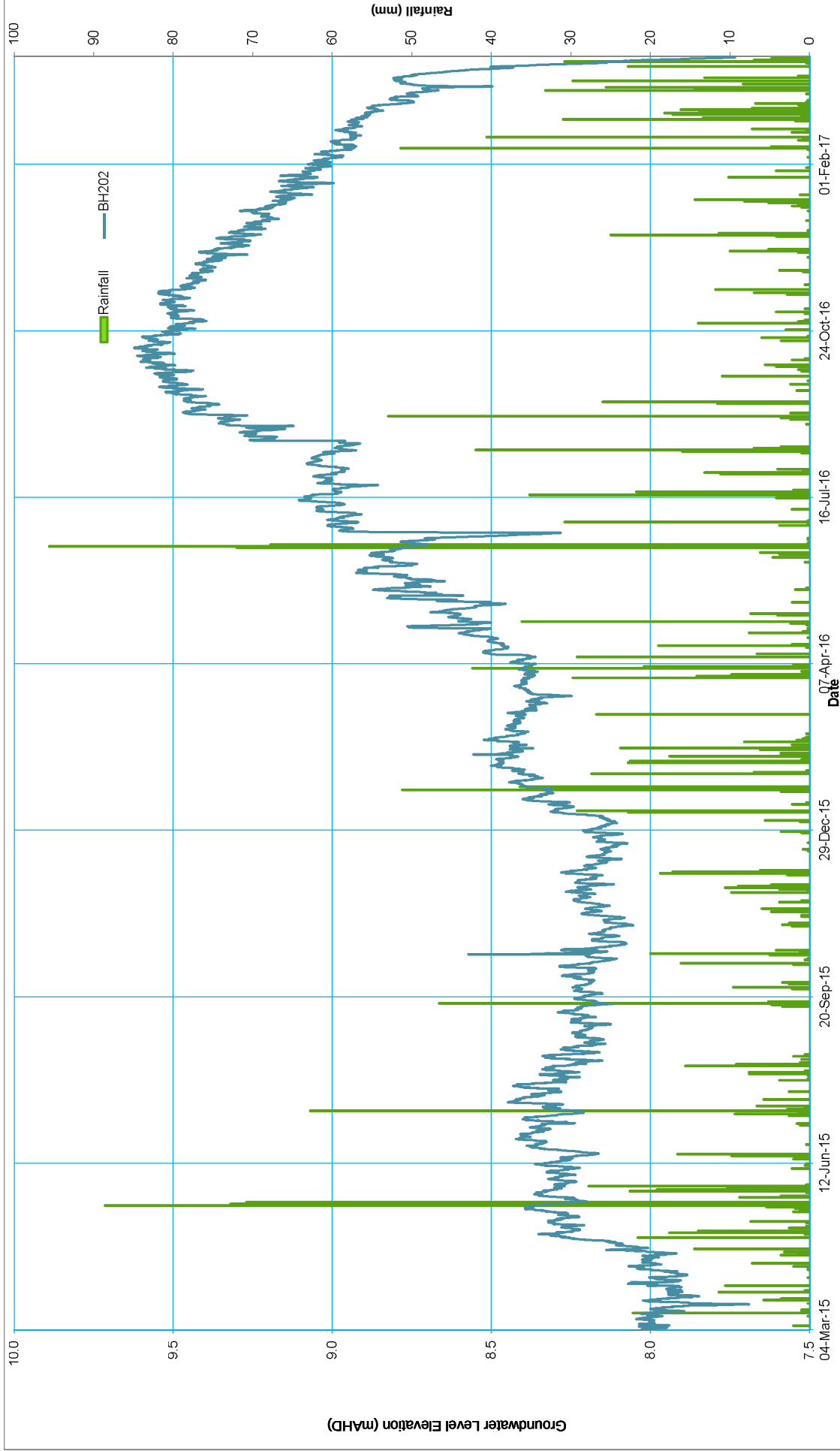


Title: Hydrograph BH201
Project: West Connex - Stage 2
Client: Sydney Motorway Corporation
Location: Scarborough Park, Colson Cres, Monterey

Screen Interval: 18.0 - 21.0 m
Lithology Screened: Botany Sands
Monitoring well elevation: 2.36 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: G1
Project No: 60491677

BH201

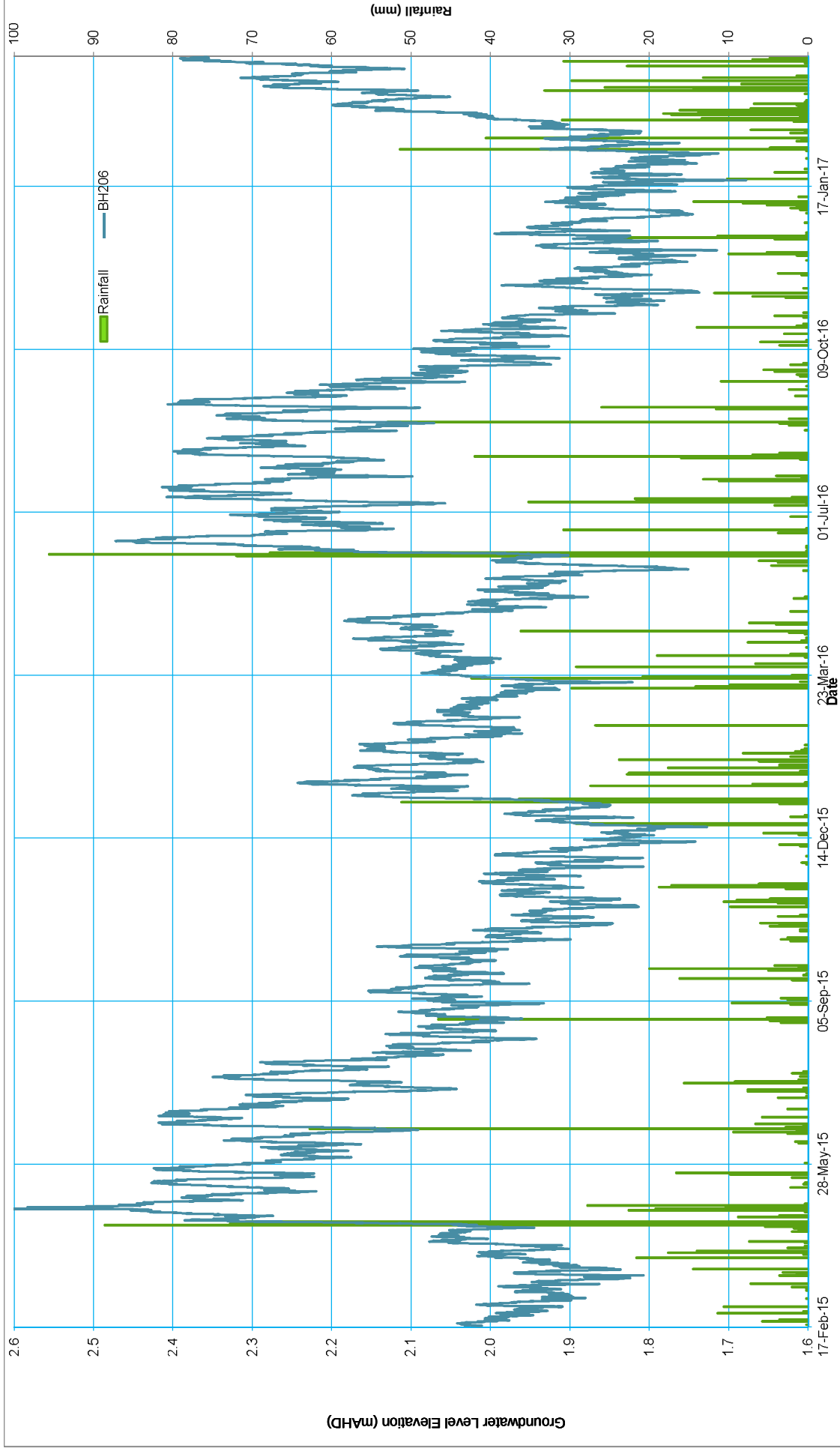


Title: Hydrograph BH202
Project: West Connex - Stage 2
Client: Sydney Motorway Corporation
Location: President Ave, Kogarah, St George TAFE car park

Screen Interval: 35.5 - 38.5 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 12.87 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: G2
Project No: 60491677

BH202

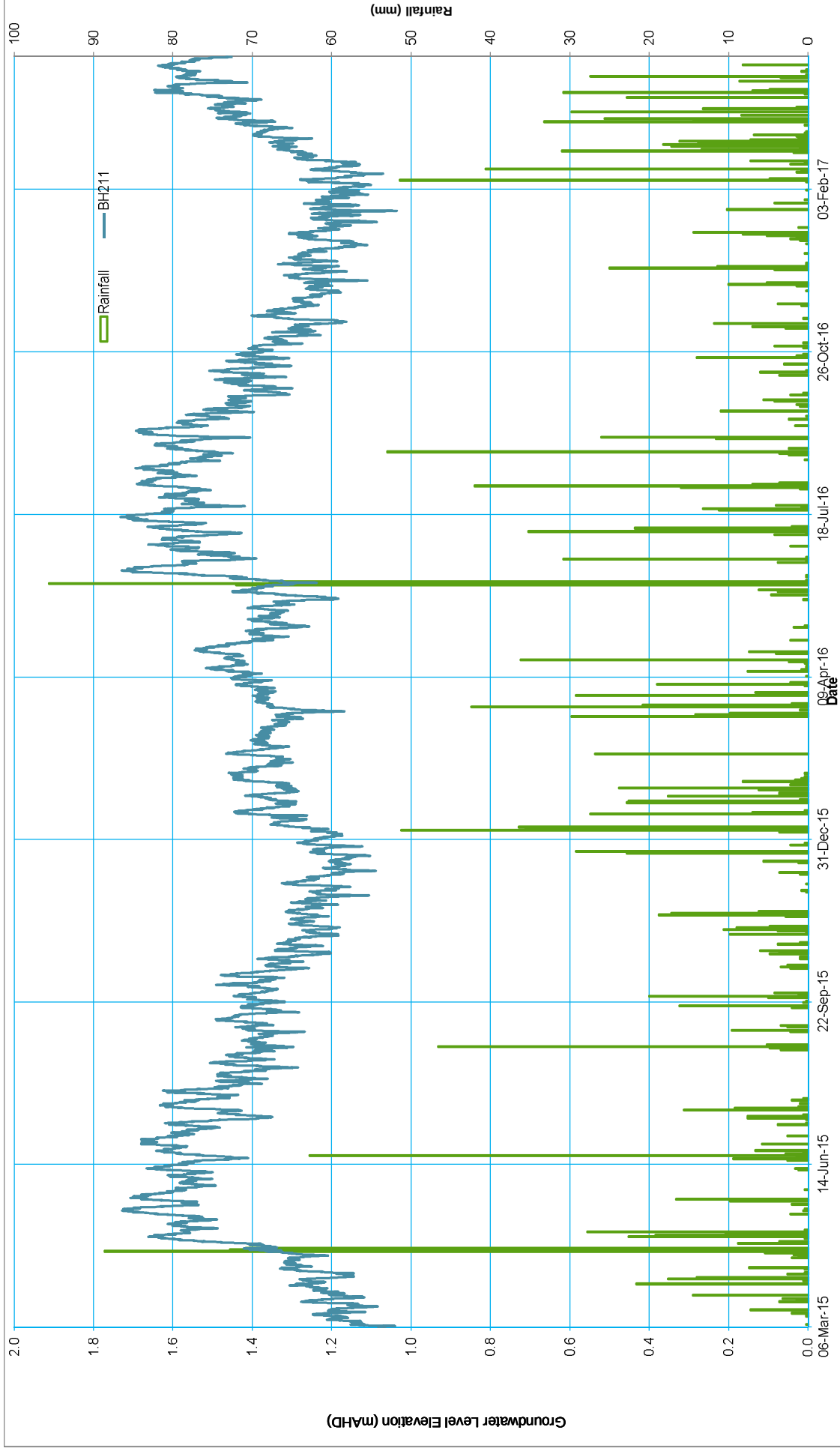


Title: Hydrograph BH206
Project: West Connex - Stage 2
Client: Sydney Motorway Corporation
Location: Beach St, Kogarah

Screen Interval: 19.0 - 22.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 2.39 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: G3
Project No: 60491677

BH206

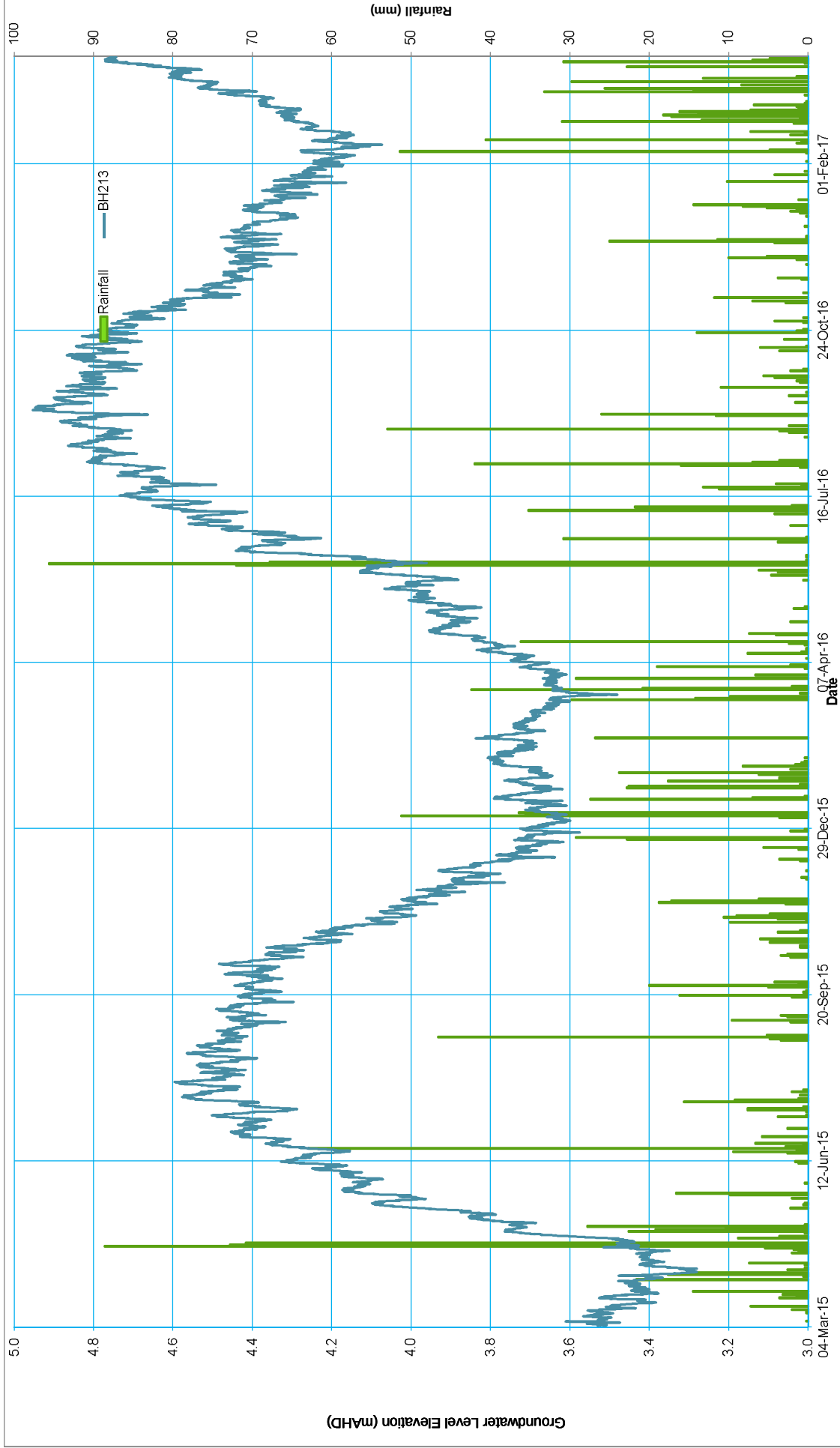


Title: Hydrograph BH211
Project: West Connex - Stage 2
Client: Sydney Motorway Corporation
Location: Redmond Field, Brighton Le-Sands

Screen Interval: 48.0 - 51.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 2.05 mAHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: G4
Project No: 60491677

BH211

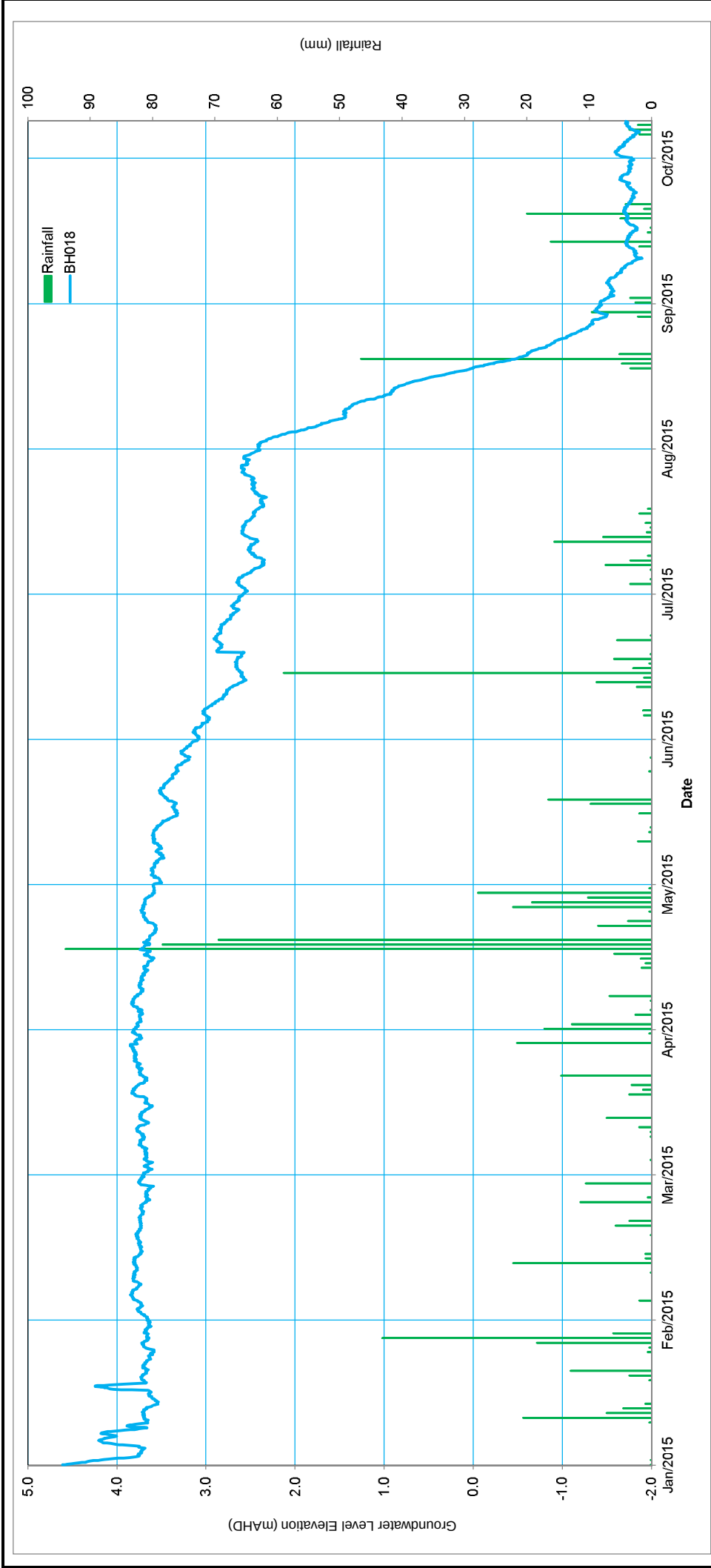


Title: Hydrograph BH213
Project: West Connex - Stage 2
Client: Sydney Motorway Corporation
Location: 68 Lennox Street, Rockdale

Screen Interval: 29.0 - 32.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 10.88 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: G5
Project No: 60491677

BH213



		Hydrograph BH018		Screen Interval: 51.0 - 54.0 m		Figure: D2		BH018	
Project: West Connex - Stage 2		Lithology Screened: Hawkesbury Sandstone		Monitoring well elevation: 34.84 m AHD		Project No: 60327128			
Client: WestConnex Delivery Authority		Rainfall measured at Sydney Airport BOM No 66037							
Location: Campbell/Burrows Road, Alexandria									

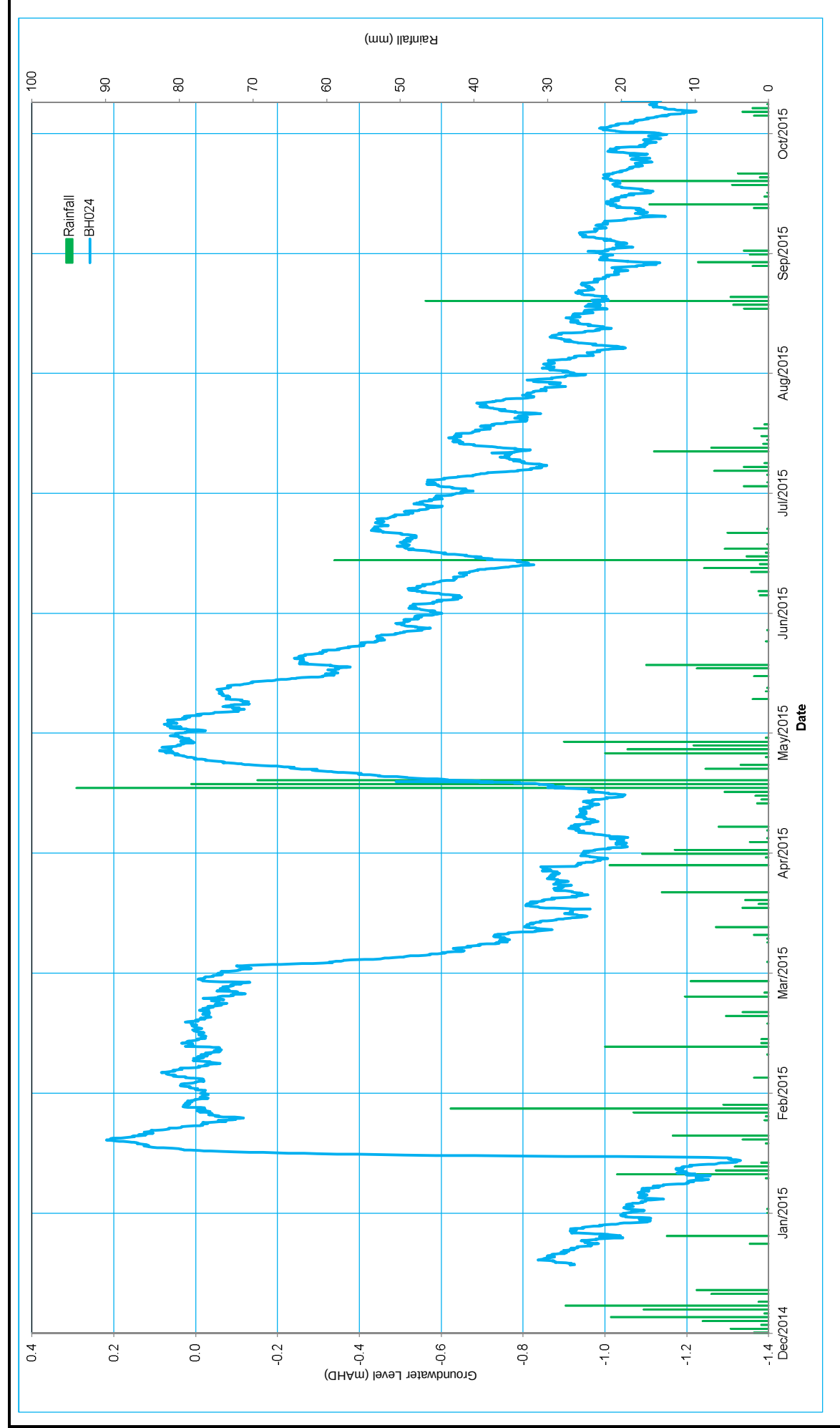


		Figure: D3		BH024	
Title:	Hydrograph BH024	Screen Interval:	26.0 - 29.0 m	Project No:	60327128
Project:	West Connex - Stage 2	Lithology Screened:	Hawkesbury Sandstone	Rainfall measured at Sydney Airport BOM No 66037	
Client:	WestConnex Delivery Authority	Monitoring well elevation:	8.17 m AHD		
Location:	Campbell Road, Alexandria				

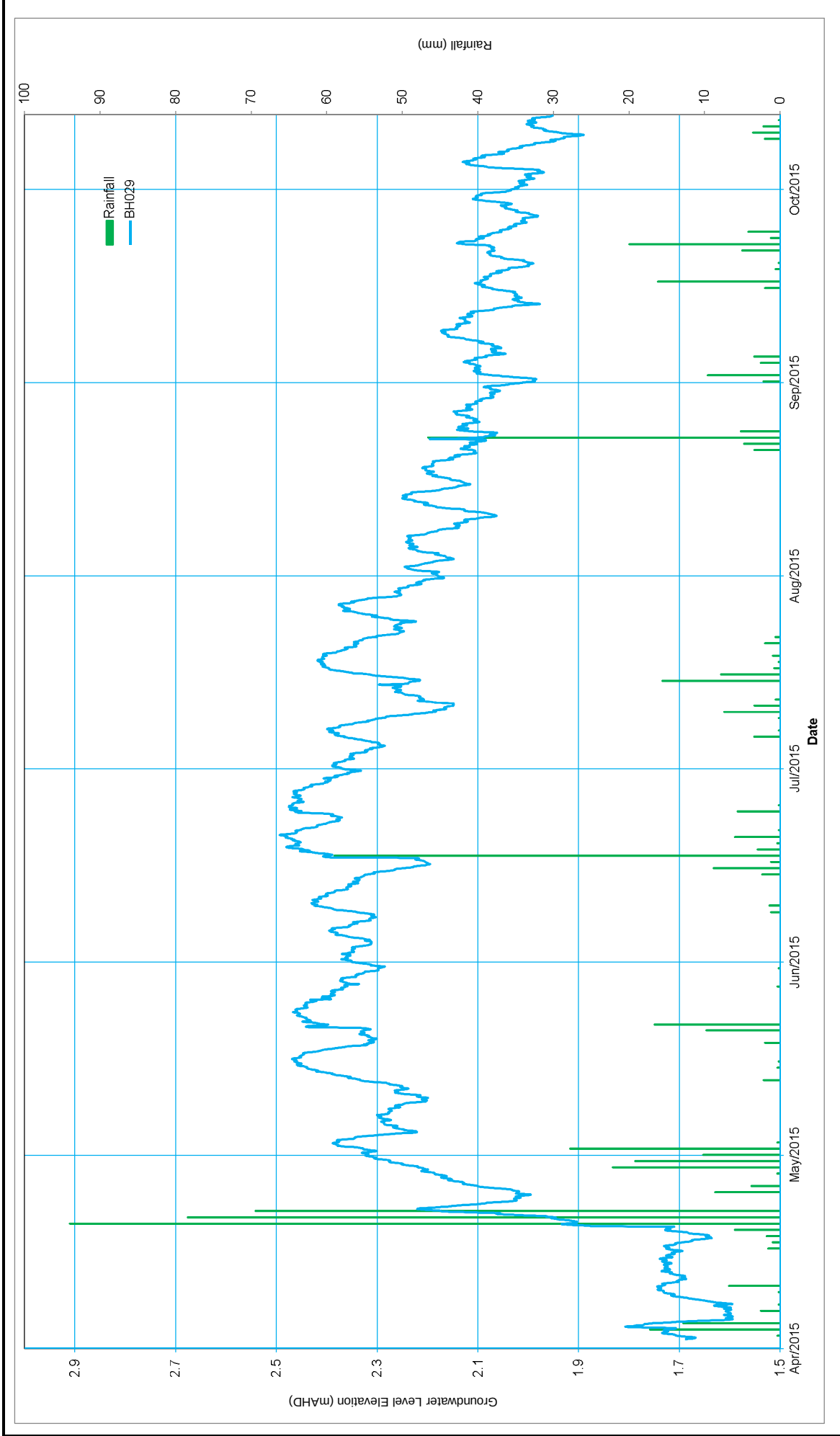
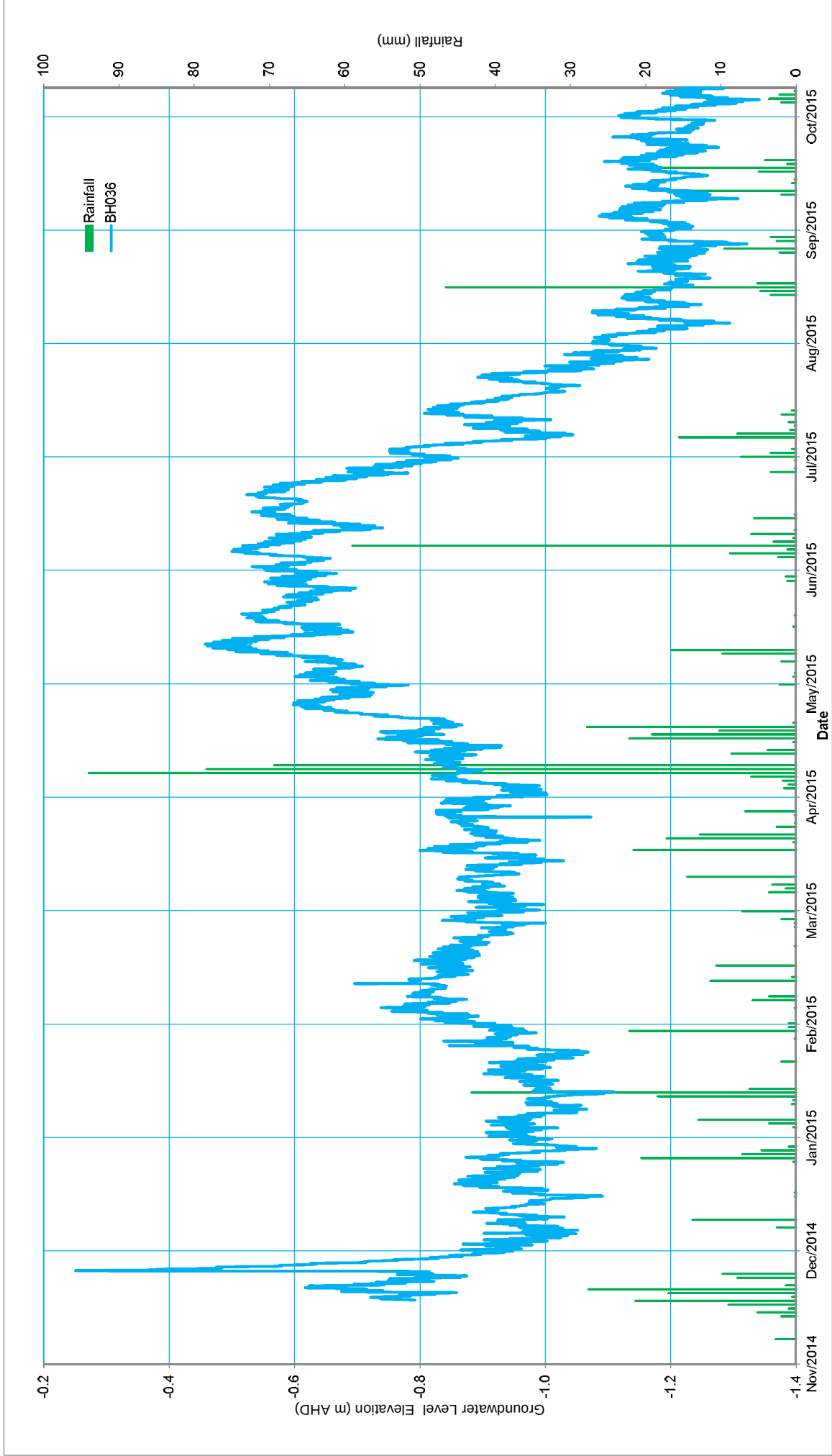


		Figure: D5		BH029	
Title:	Hydrograph BH029	Screen Interval:	33.0 - 36.0 m	Project No:	60327128
Project:	West Connex - Stage 2	Lithology Screened:	Hawkesbury Sandstone	Rainfall measured at Sydney Airport BOM No 66037	
Client:	WestConnex Delivery Authority	Monitoring well elevation:	4.28 m AHD		
Location:	Barton Park, Arncliffe	Rainfall measured at Sydney Airport BOM No 66037			

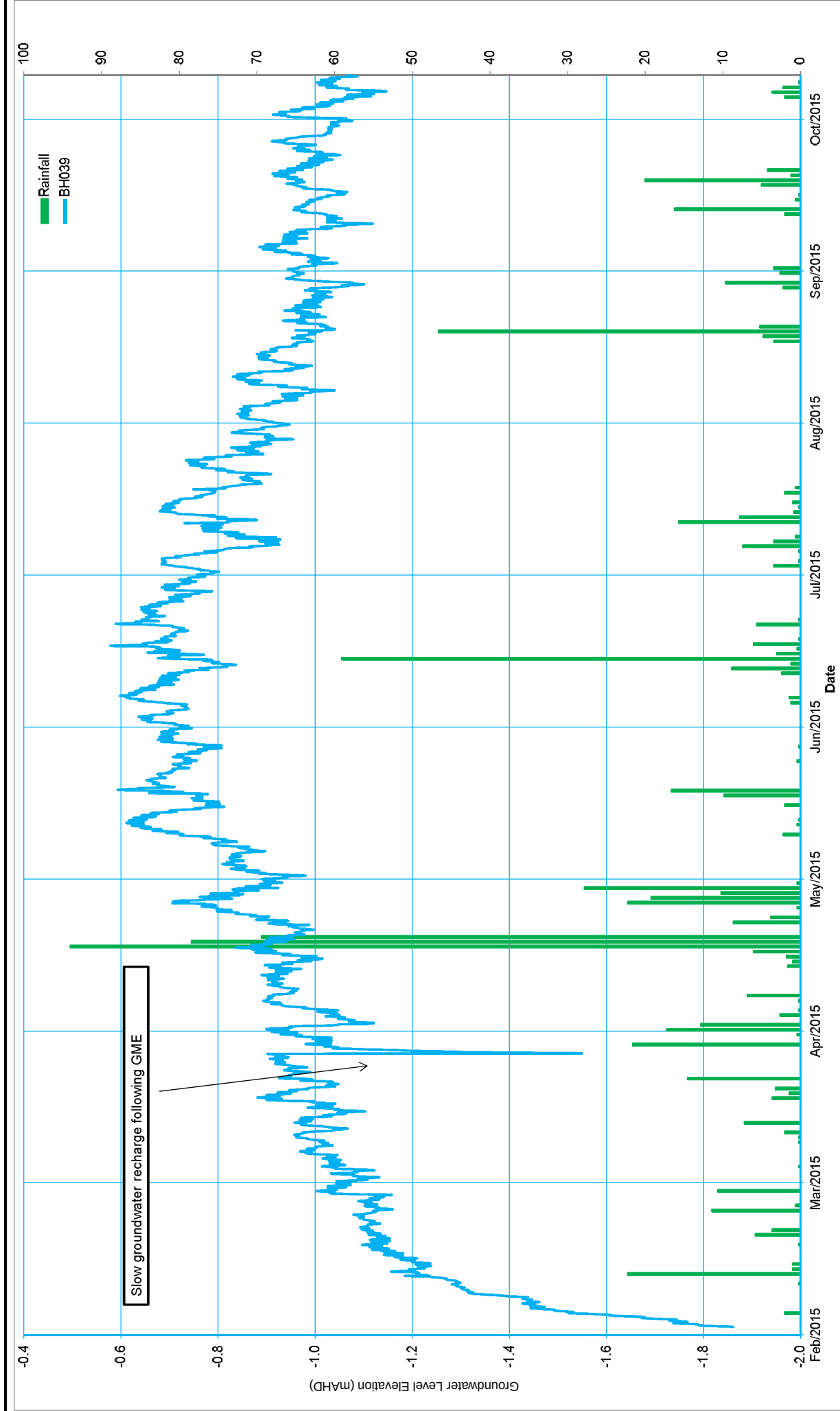


Title: Hydrograph BH036
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Cahill Park, Wollie Creek

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

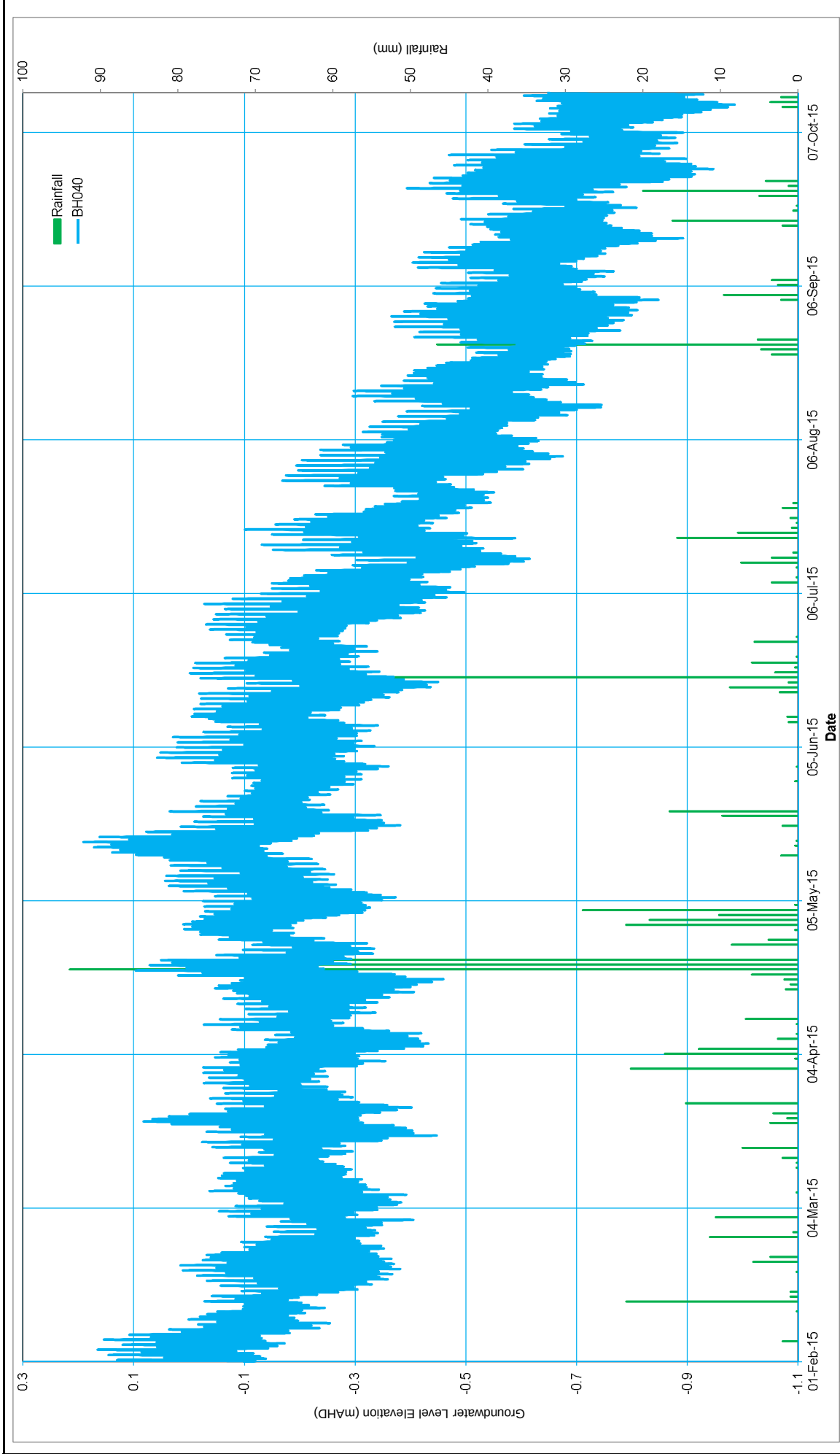


Title: Hydrograph BH039
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Discovery Park, Brodie Sparke Dr, Wolli Creek

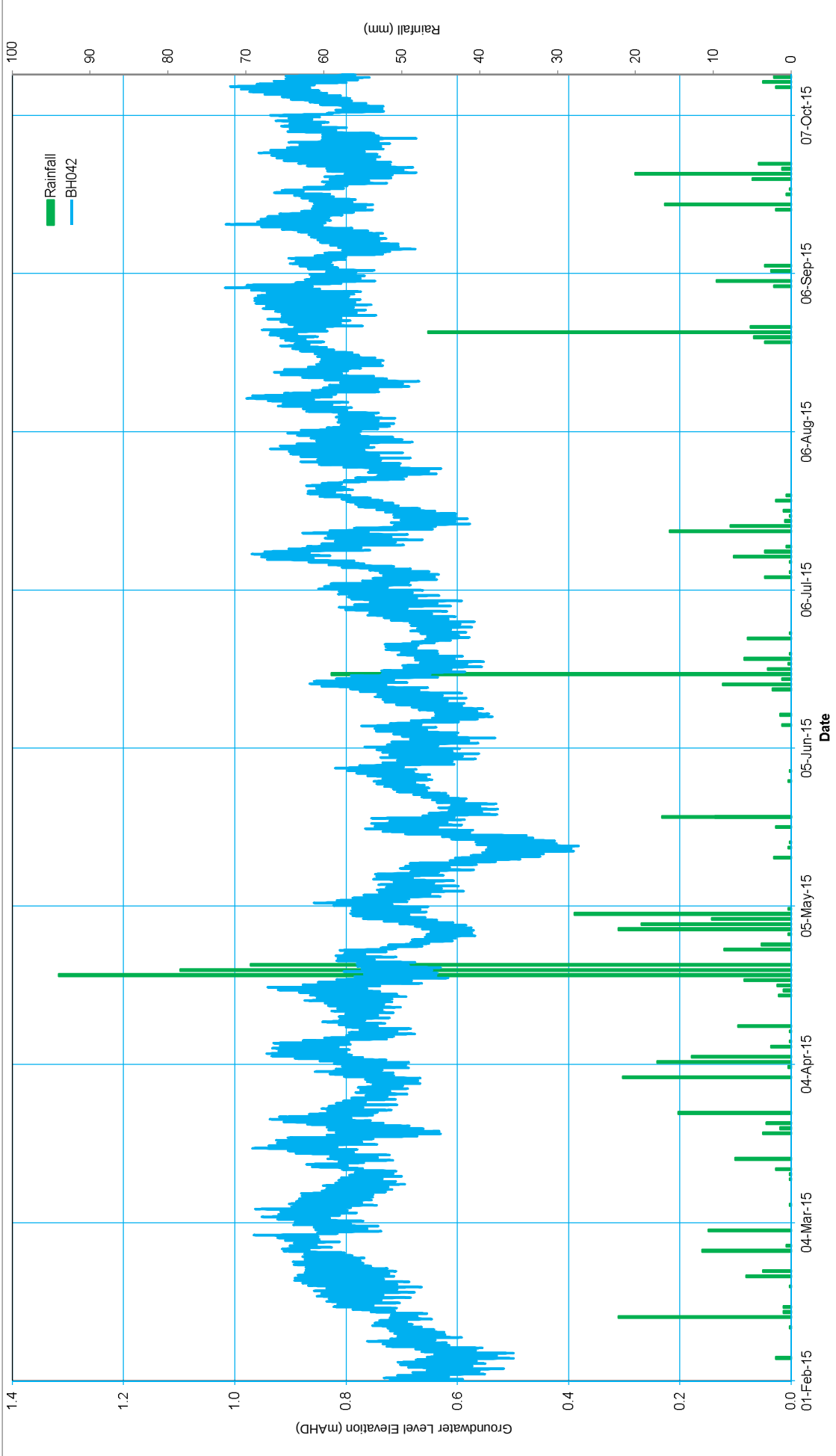
Screen Interval: 49.0 - 52.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 3.32 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D7
Project No: 60327128

BH039



		Hydrograph BH040		Figure: D8		BH040	
Title:	Project:	Screen Interval:		Project No:			
Client:	West Connex - Stage 2	Lithology Screened:		60327128			
Location:	WestConnex Delivery Authority	Monitoring well elevation:					
	View St, Tempe	Rainfall measured at Sydney Airport BOM No 66037					
		65.0 - 68.0 m					
		Andesite dyke (Basalt)					
		1.61 m AHD					



Title: Hydrograph BH042
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Kendrick Park, View Street, Tempe

Screen Interval: 45.5 - 48.5 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 1.85 mAH
Rainfall measured at Sydney Airport BOM No 66037

Figure: D9
Project No: 60327128

BH042

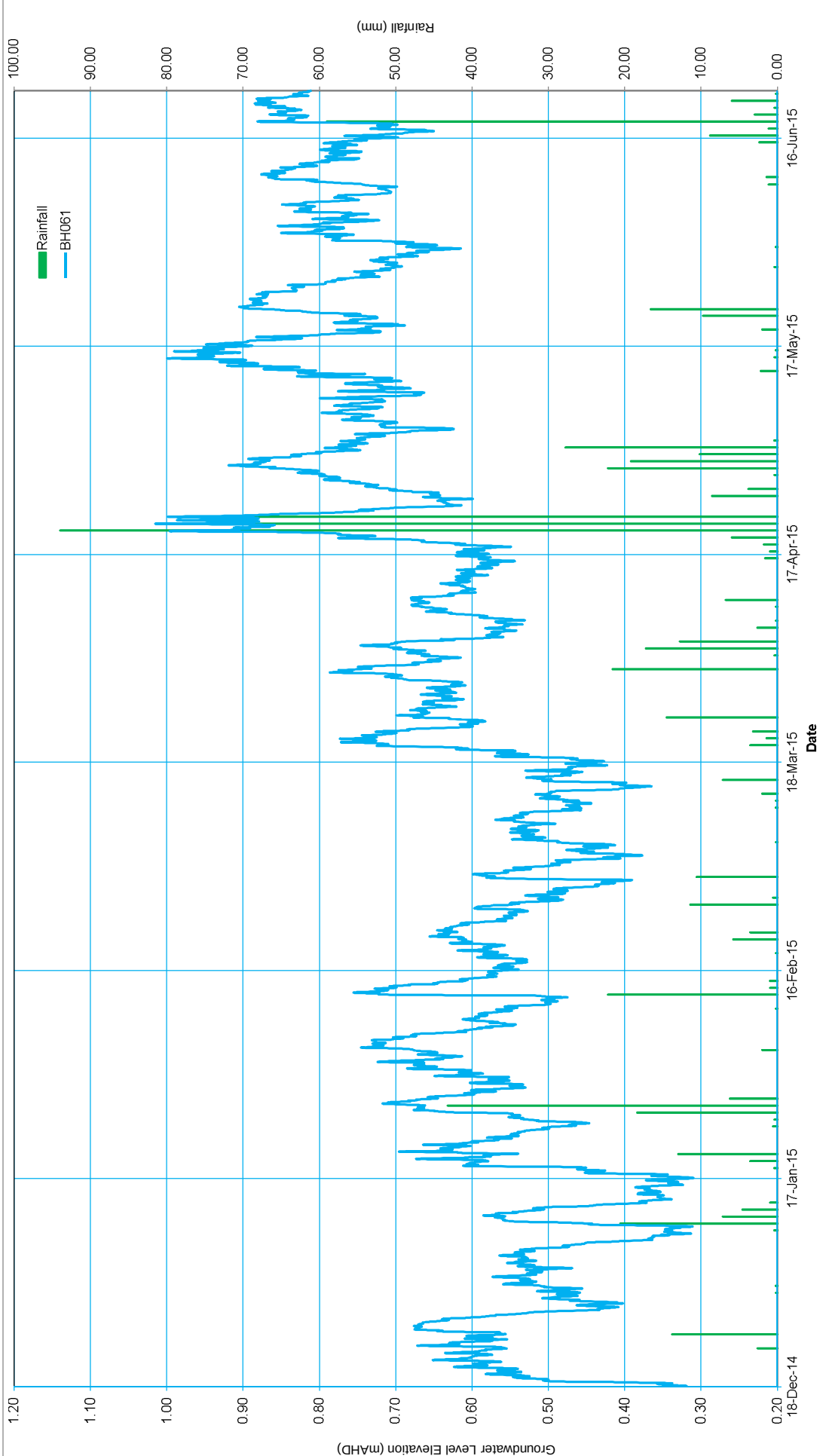


		Figure: D10		BH061s	
Title: Hydrograph BH061s		Screen Interval: 7.0 - 10.0 m		Project No: 60327128	
Project: West Connex - Stage 2		Lithology Screened: Hawkesbury Sandstone		Rainfall measured at Sydney Airport BOM No 66037	
Client: WestConnex Delivery Authority		Monitoring well elevation: 0.85 m AHD			
Location: Barton Park, Muddy Creek, Arncliffe					

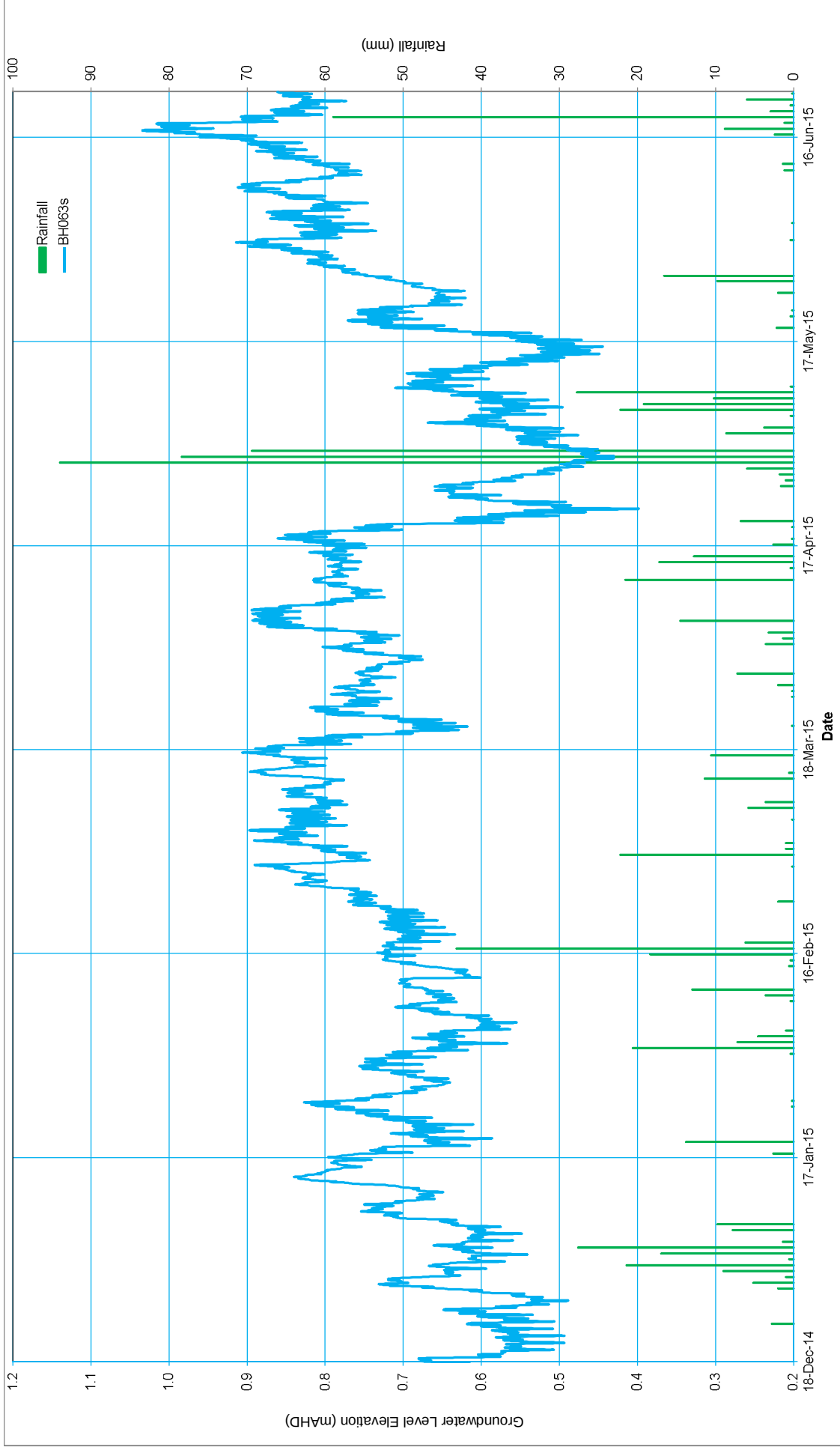
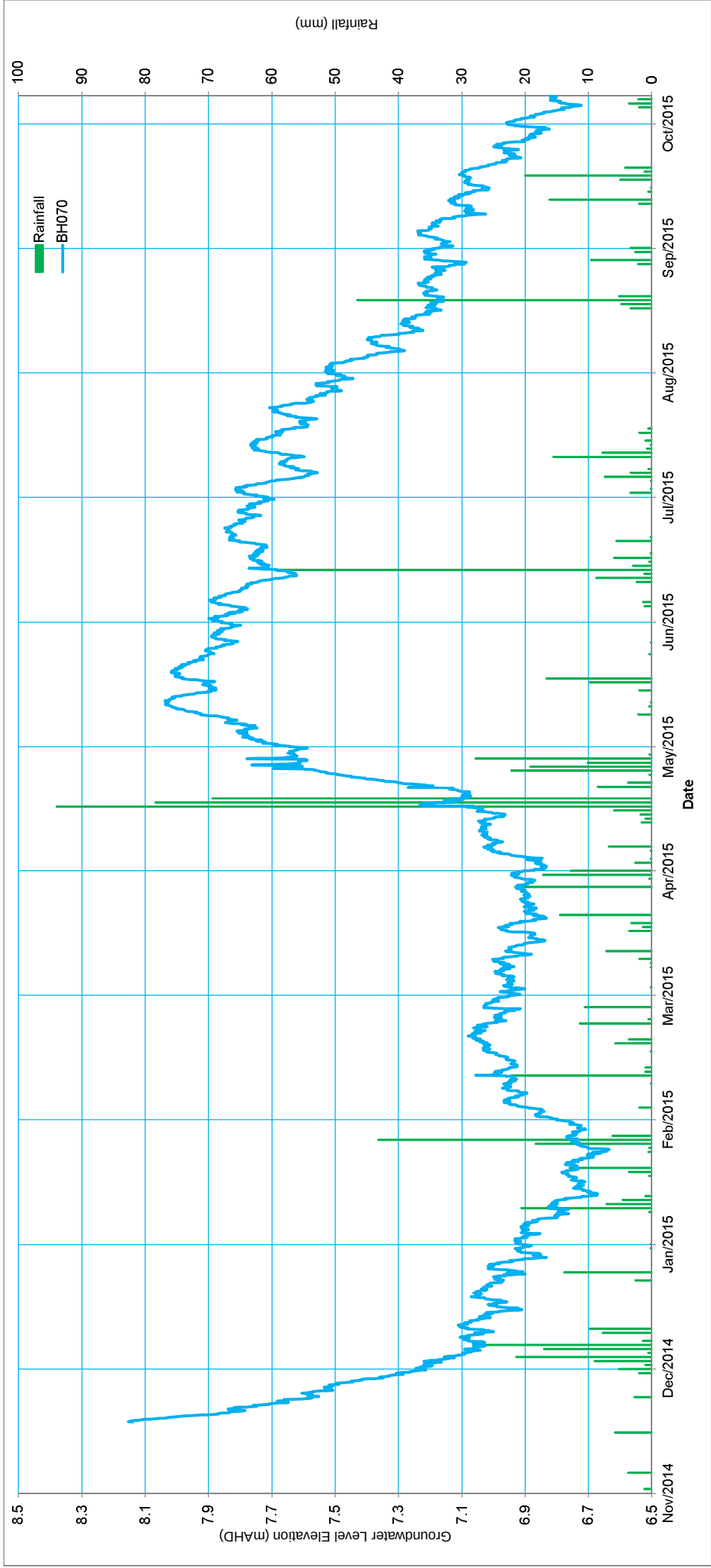
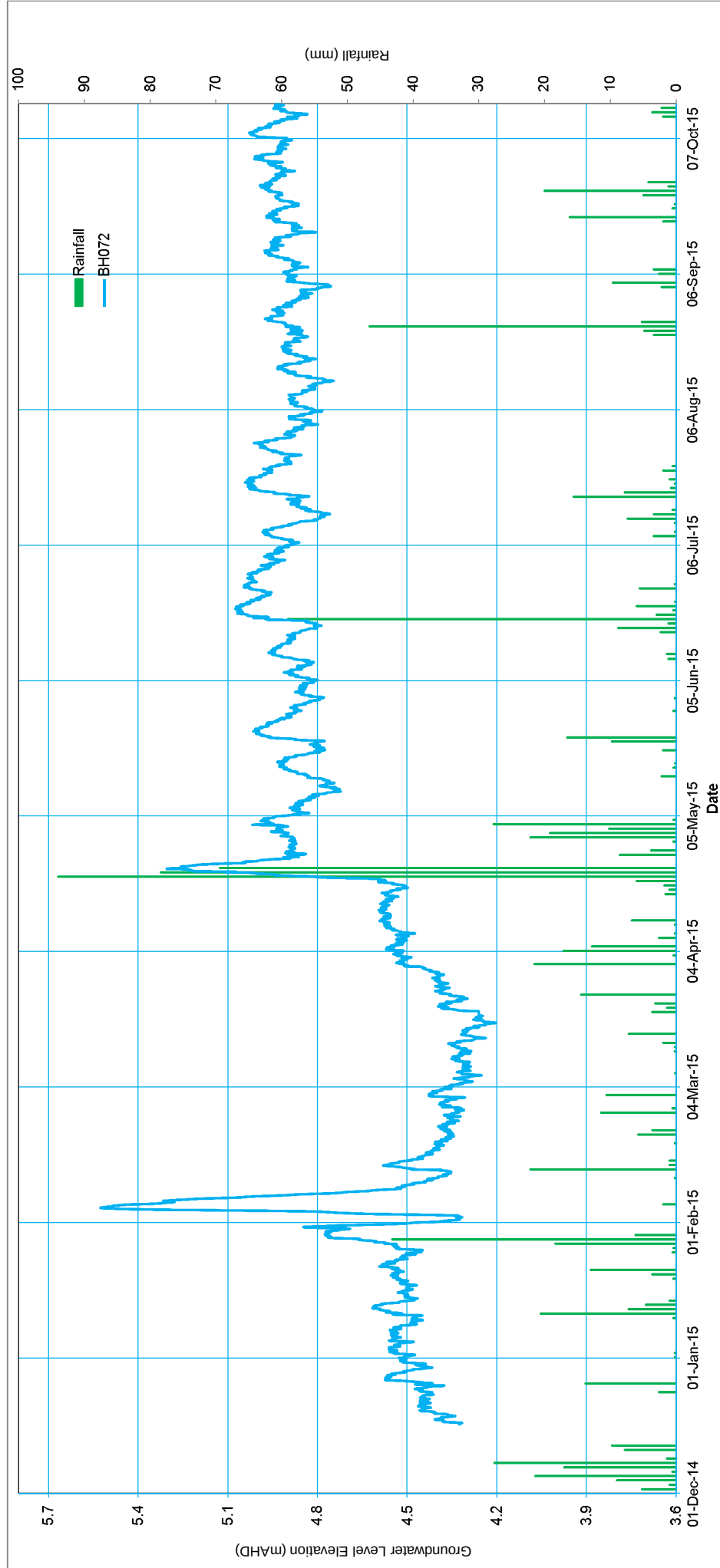
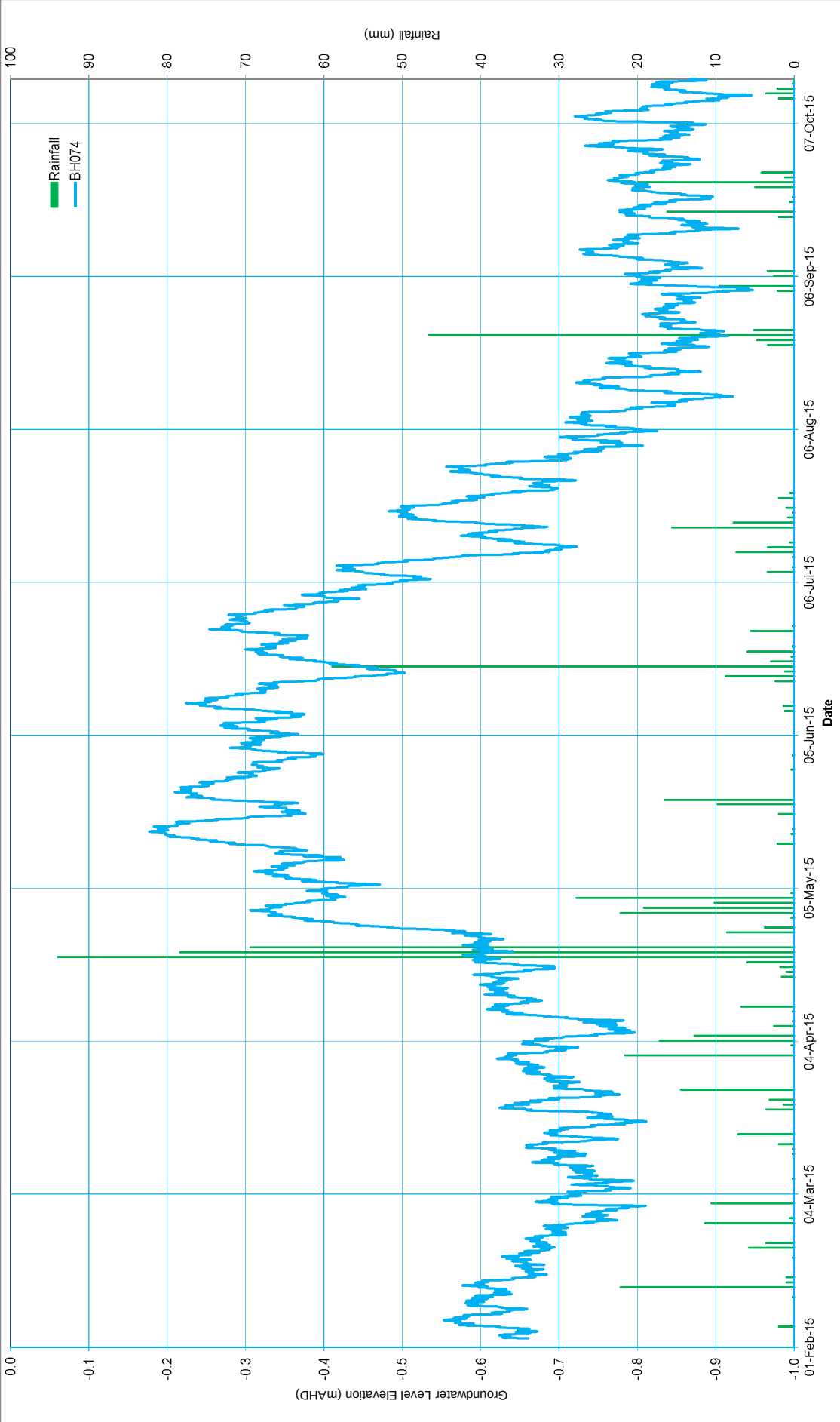


		Figure: D11		BH063s	
Title: Hydrograph BH063s		Screen Interval: 5.0 - 8.0 m		Project No: 60327128	
Project: West Connex - Stage 2		Lithology Screened: Botany Sands		Rainfall measured at Sydney Airport BOM No 66037	
Client: WestConnex Delivery Authority		Monitoring well elevation: 3.31 m AHD			
Location: Banksia Field, Arncliffe					



AECOM		Hydrograph BH070		Screen Interval: 35.0 - 38.0 m		Figure: D12		BH070	
Project: West Connex - Stage 2		Lithology Screened: Hawkesbury Sandstone		Monitoring well elevation: 17.54 m AHD		Project No: 60327128			
Client: WestConnex Delivery Authority		Rainfall measured at Sydney Airport BOM No 66037							
Location: Bellevue Court, Arncliffe									



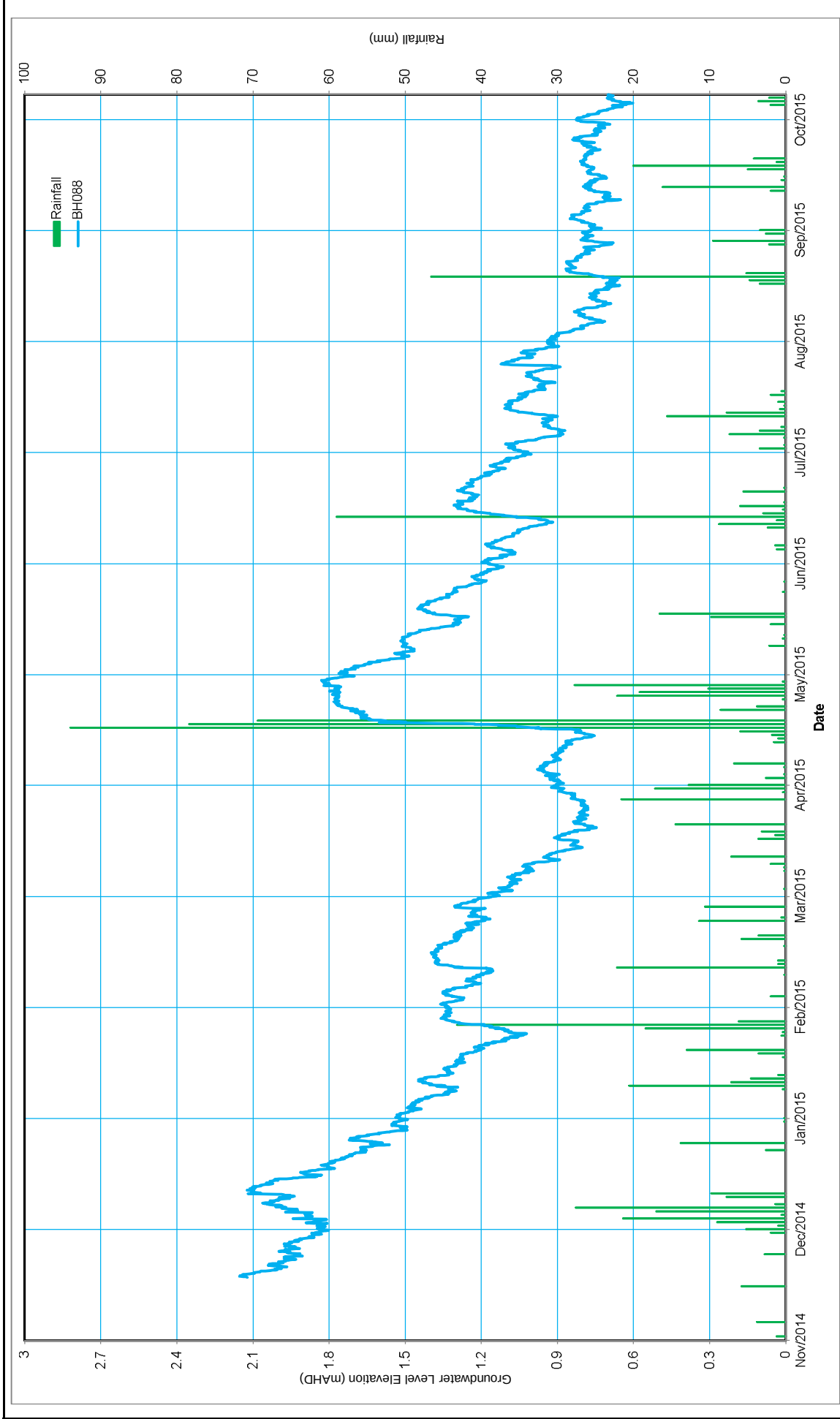


Title: Hydrograph BH074
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Argyle St, Arncliffe

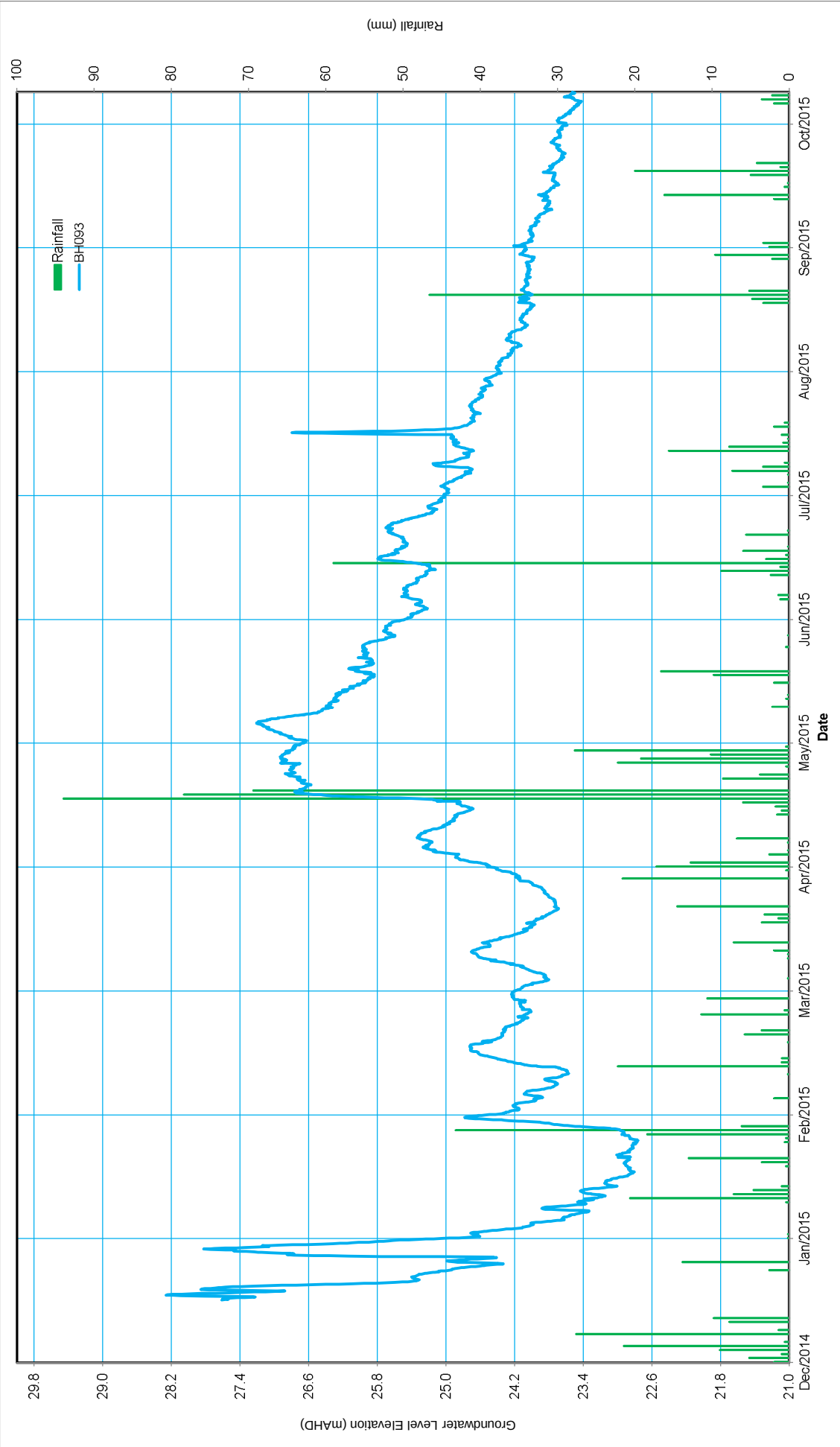
Screen Interval: 39.0 - 42.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 2.58 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D14
Project No: 60327128

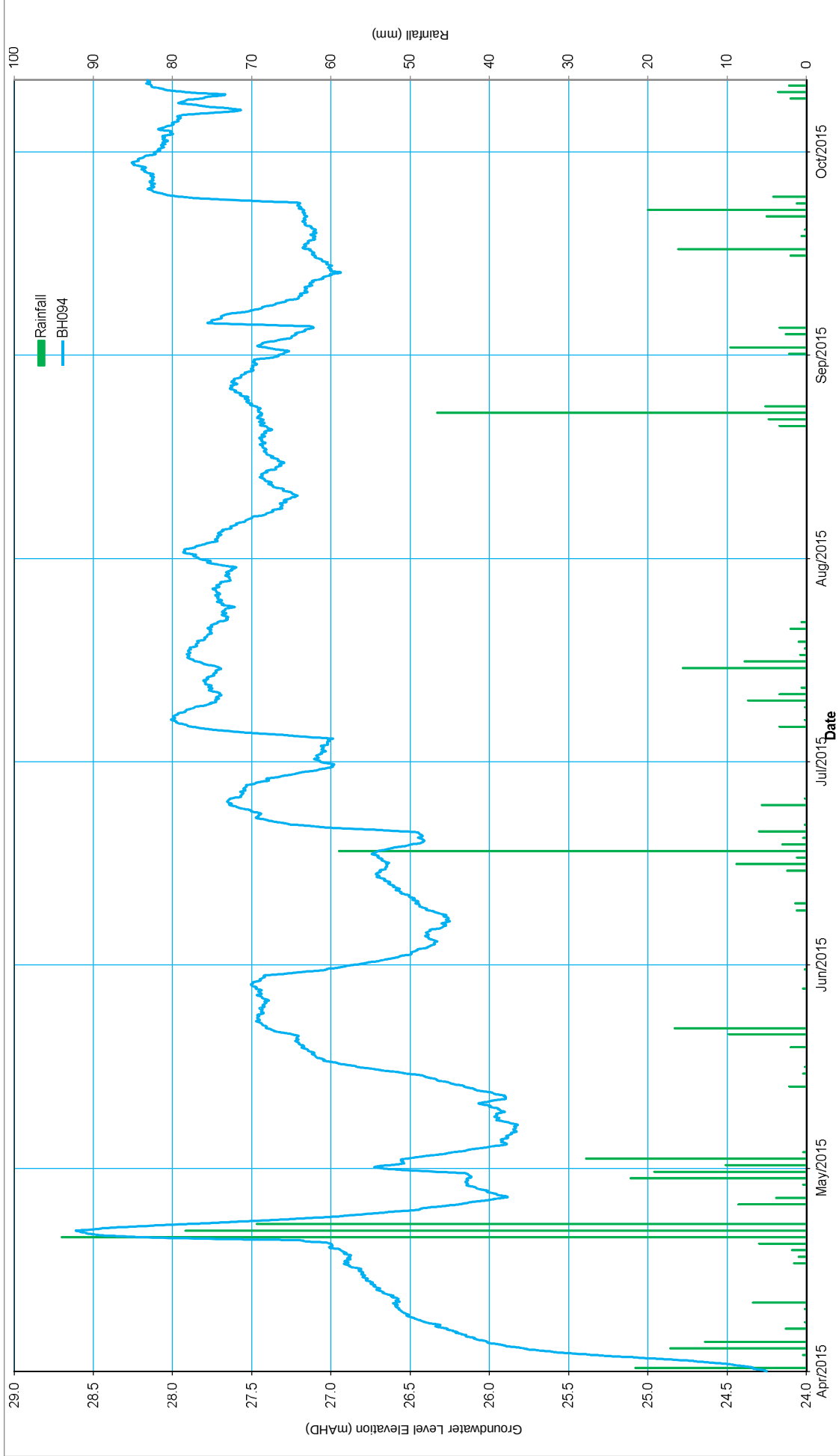
BH074



	Title: Project: West Connex - Stage 2 Client: WestConnex Delivery Authority Location: Cahill Park, Wolli Creek	Hydrograph BH088 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
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		Hydrograph BH093		Figure: D17		BH093	
Title:		Project: West Connex - Stage 2		Screen Interval: 47.0 - 50.0 m		Project No: 60327128	
Client:		WestConnex Delivery Authority		Lithology Screened: Hawkesbury Sandstone			
Location:		Lorraine Ave, near East St, Bardwell Park		Monitoring well elevation: 36.39 m AHD			
				Rainfall measured at Sydney Airport BOM No 66037			



Title: Hydrograph BH094
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: 7 Athelstane Ave, Arncliffe

Screen Interval: 54.0 - 57.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 31.17 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D18
Project No: 60327128

BH094

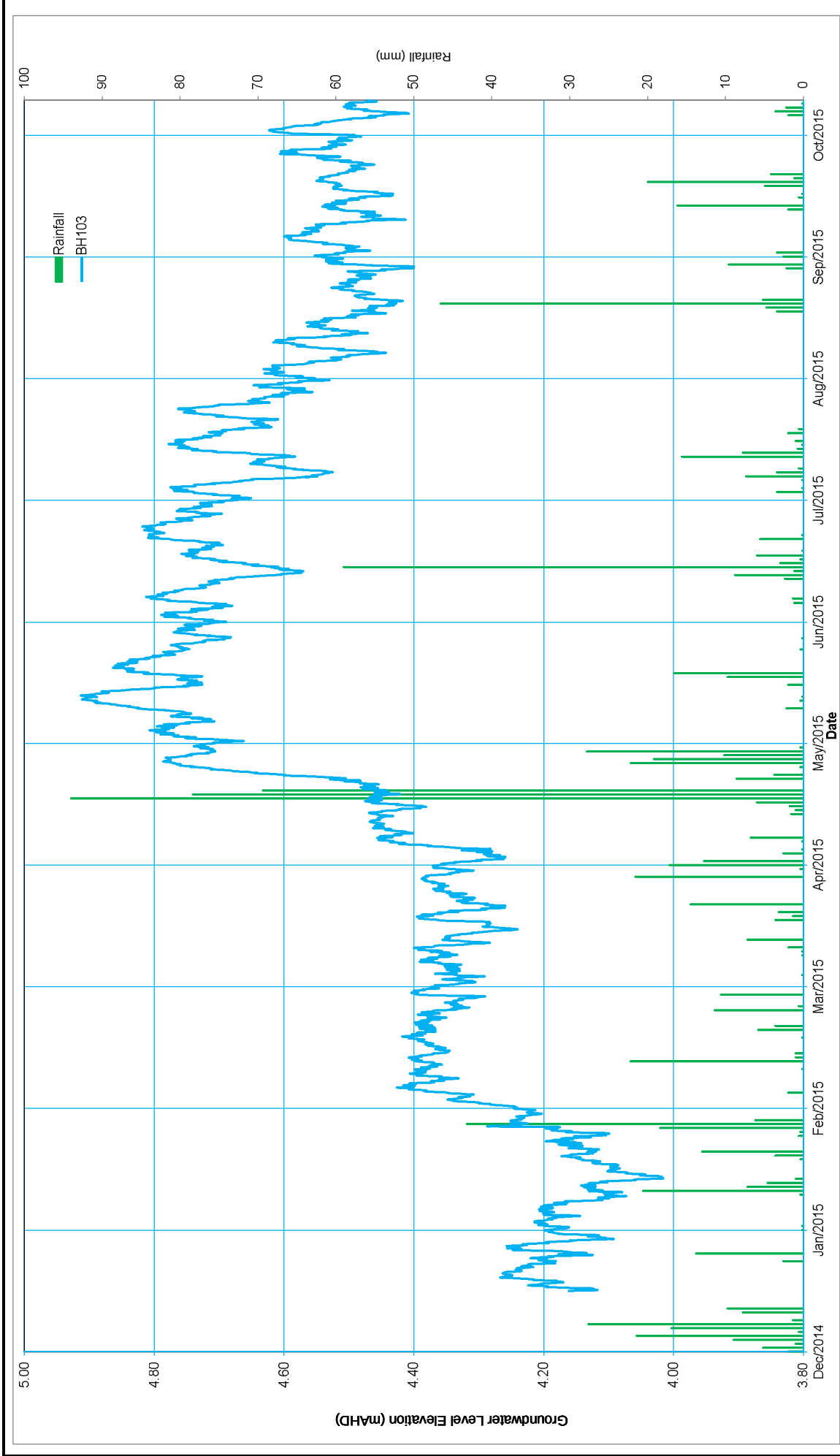
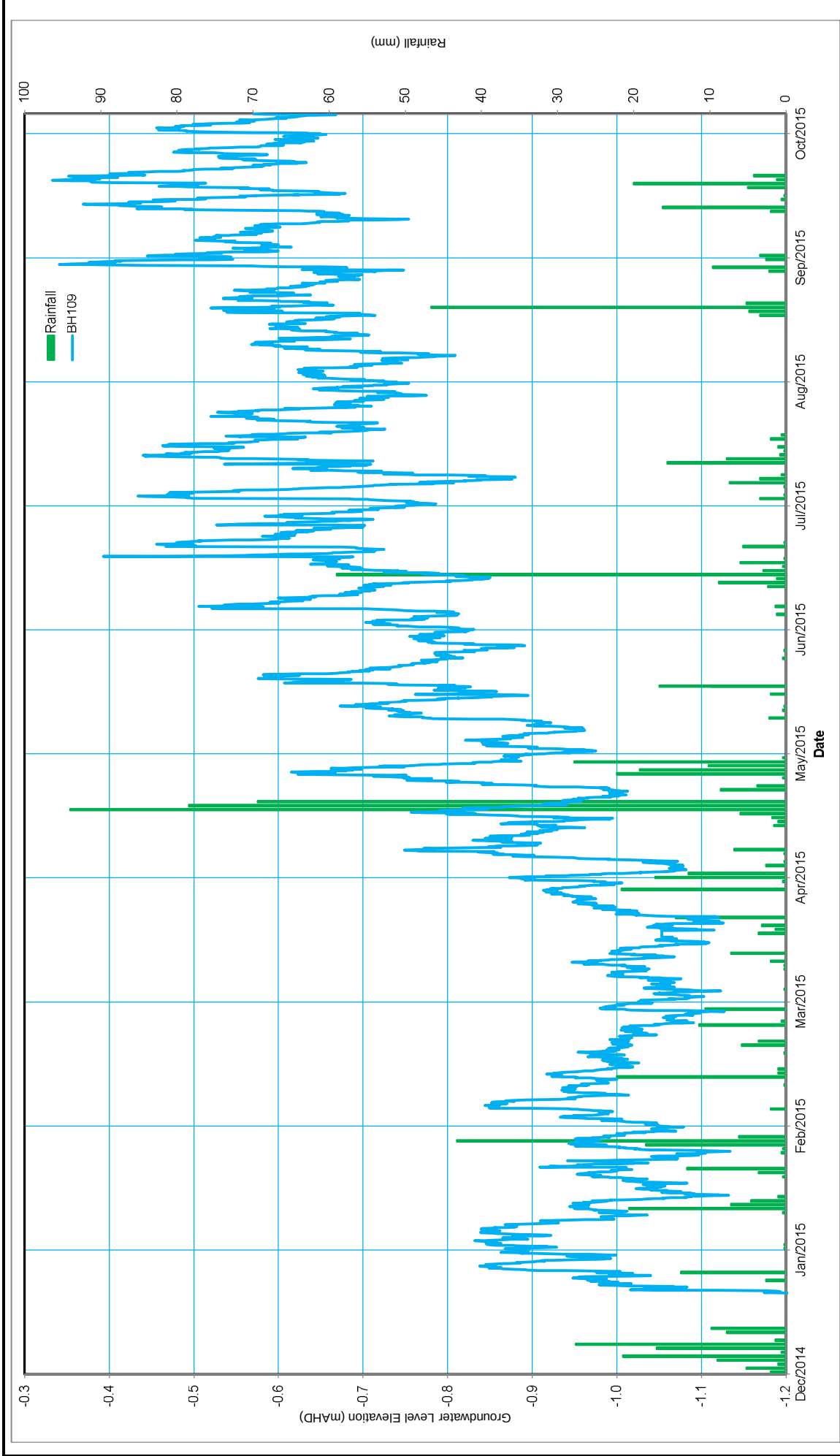


		Figure: D19		BH103	
Title: Hydrograph BH103		Screen Interval: 48.0 - 51.0 m		Project No: 60327128	
Project: West Connex - Stage 2		Lithology Screened: Hawkesbury Sandstone		Rainfall measured at Sydney Airport BOM No 66037	
Client: WestConnex Delivery Authority		Monitoring well elevation: 11.10 m AHD			
Location: Samuel St near Henry St, Tempe					

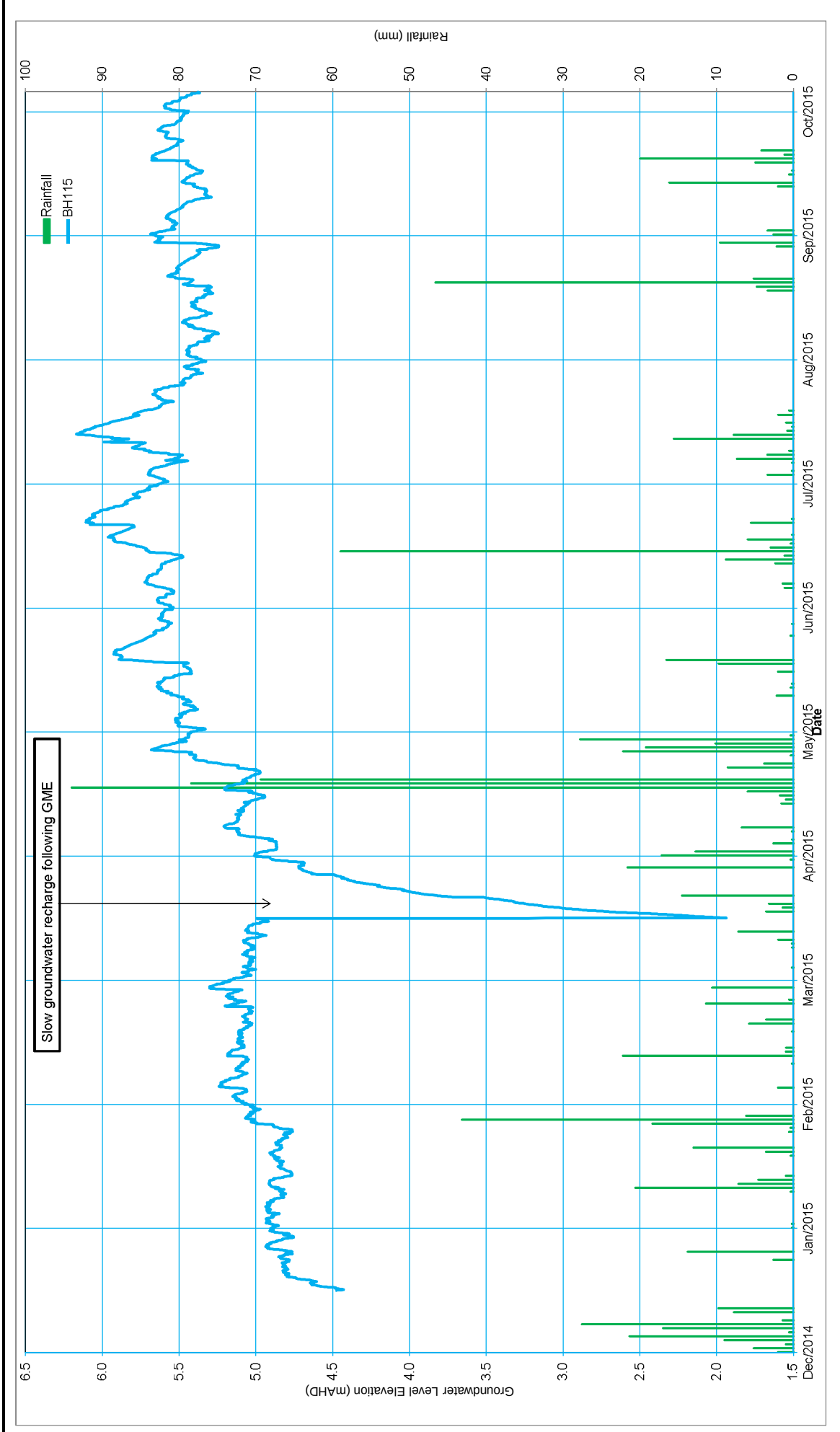


Title: Hydrograph BH109
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Industrial Estate, Canal Road, St Peters

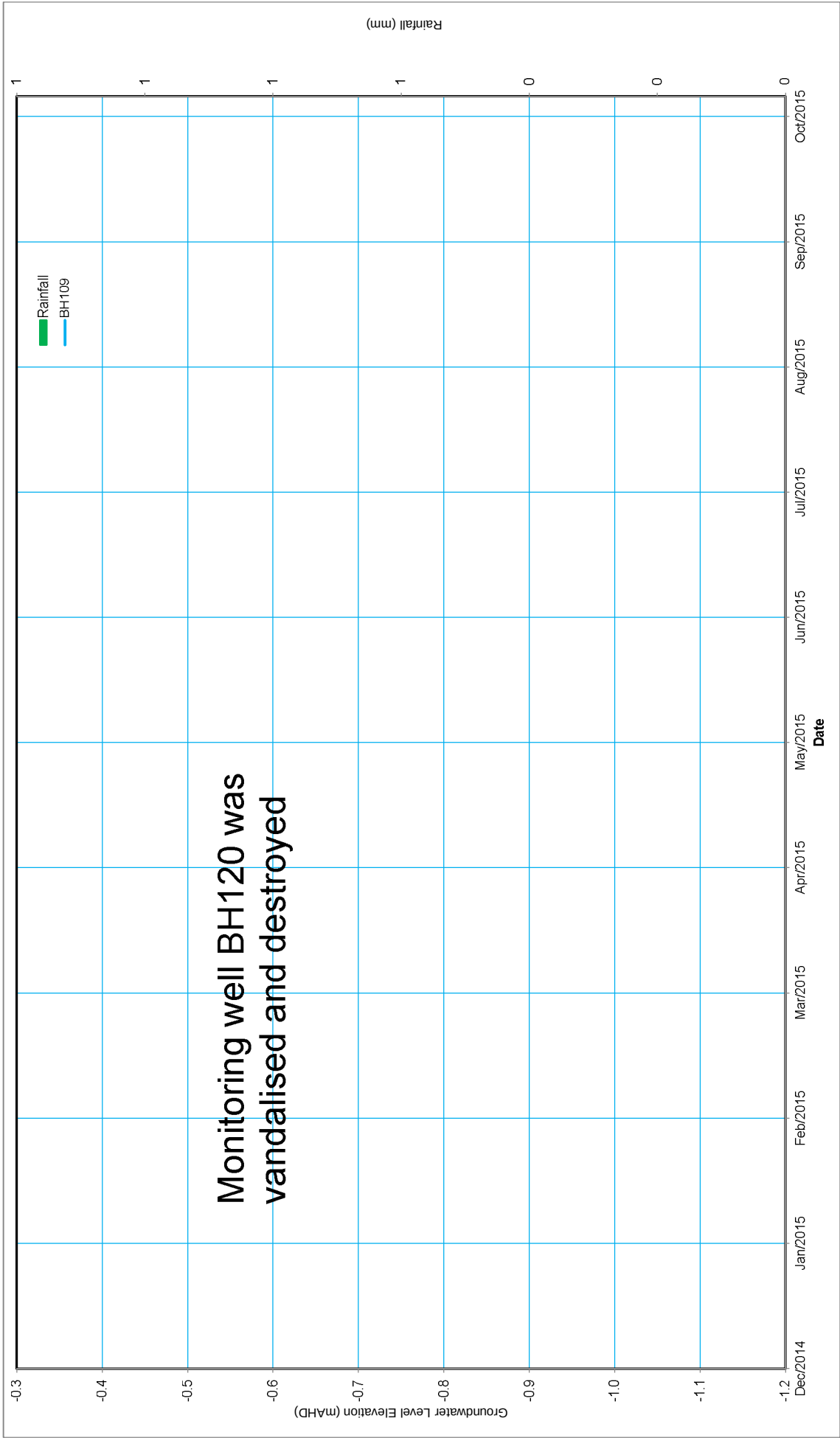
Screen Interval: 33.0 - 36.0 m
Lithology Screened: Rouse Hill Siltstone
Monitoring well elevation: 6.91 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D20
Project No: 60327128

BH109



					
Title:	Hydrograph BH115	Screen Interval:	29.5 - 32.5 m	Figure: D21	BH115
Project:	West Connex - Stage 2	Lithology Screened:	Ashfield Shale	Project No: 60327128	
Client:	WestConnex Delivery Authority	Monitoring well elevation:	20.33 m AHD		
Location:	Sydney Park, Barwon Park Rd, Alexandria				
		Rainfall measured at Sydney Airport BOM No 66037			



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

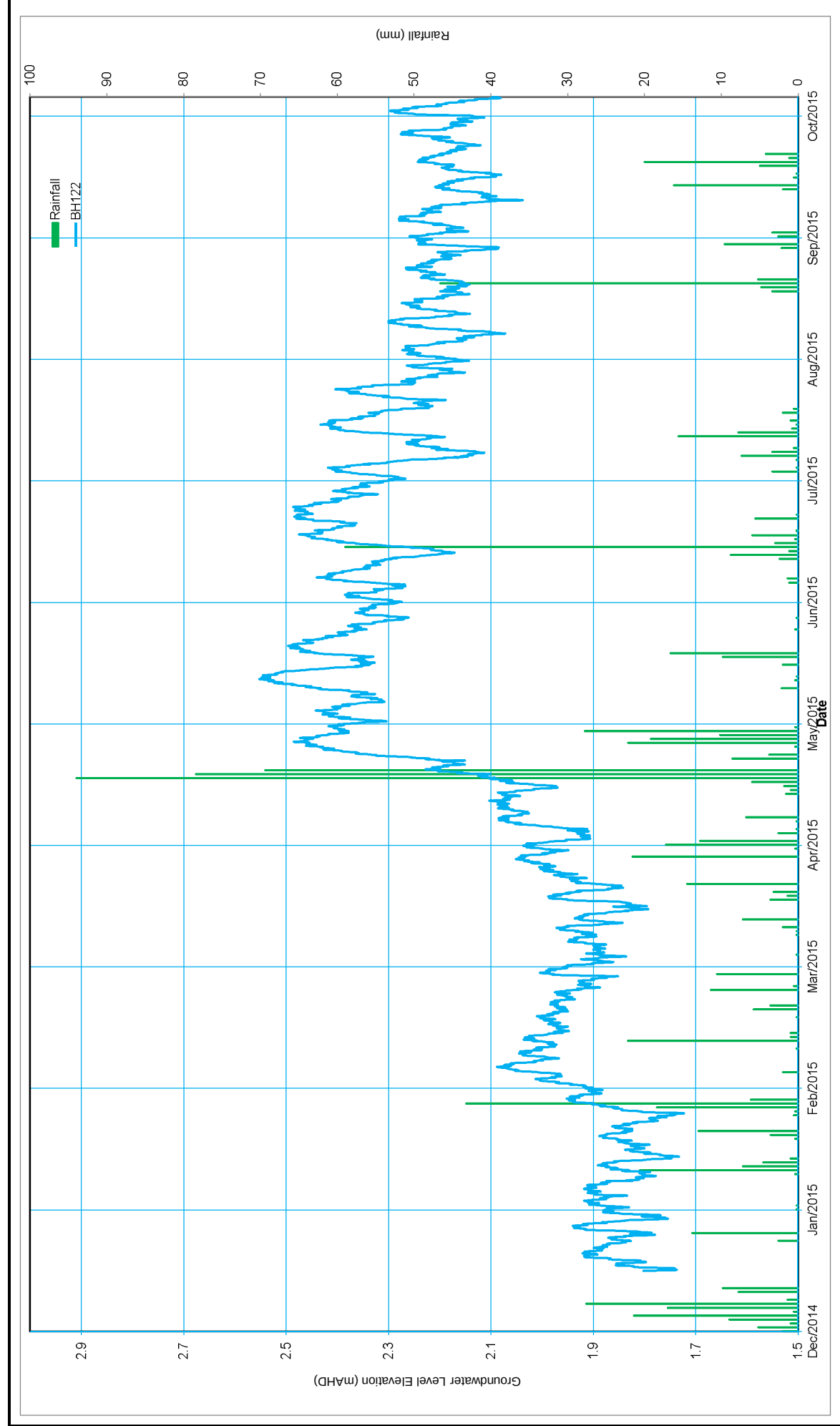
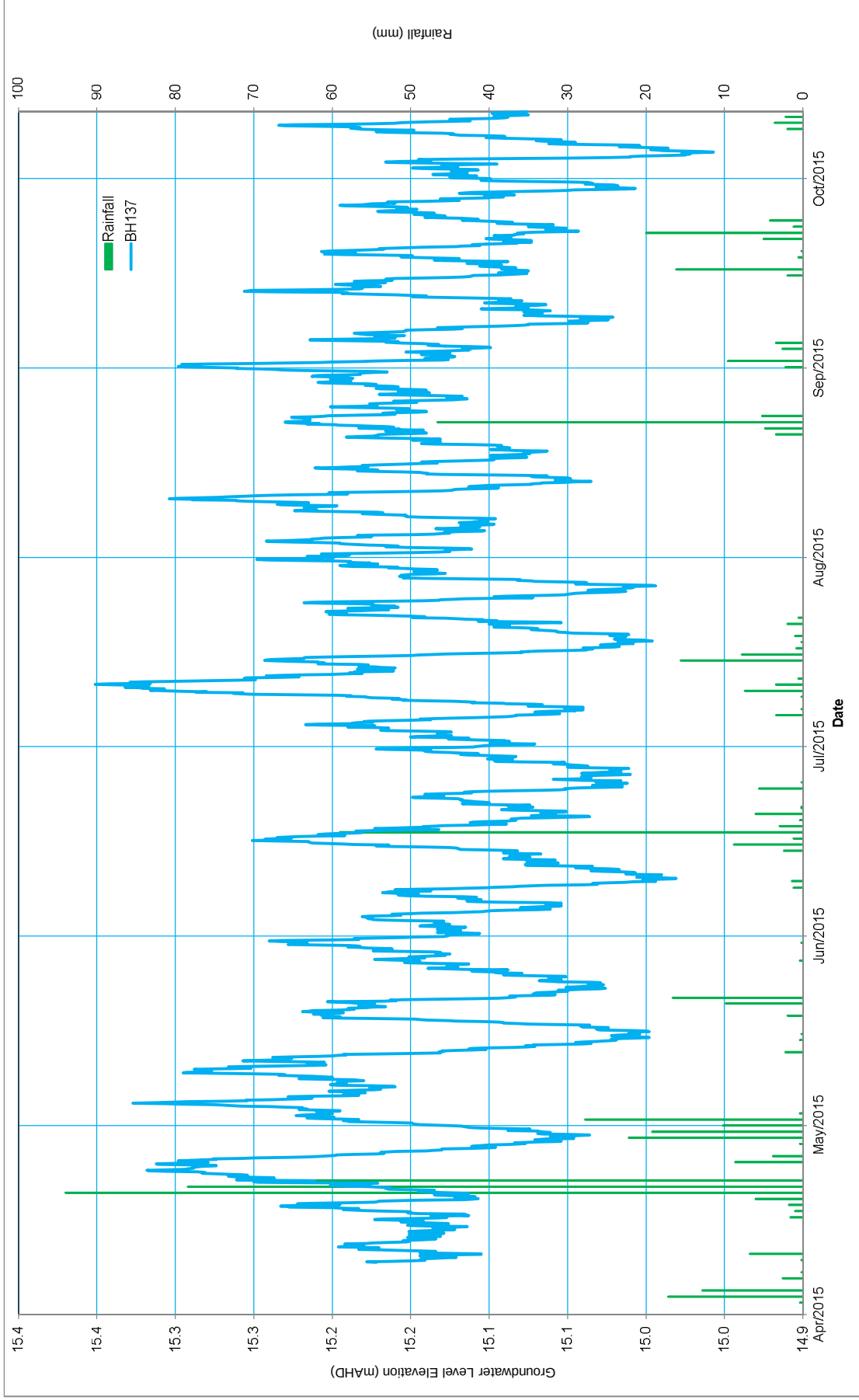


		Figure: D23		BH122	
Title: Hydrograph BH122		Screen Interval: 15.0 - 18.0 m		Project No: 60327128	
Project: West Connex - Stage 2		Lithology Screened: Ashfield Shale			
Client: WestConnex Delivery Authority		Monitoring well elevation: 5.72 m AHD			
Location: Campbell Road, Sydney Park, St Peters		Rainfall measured at Sydney Airport BOM No 66037			

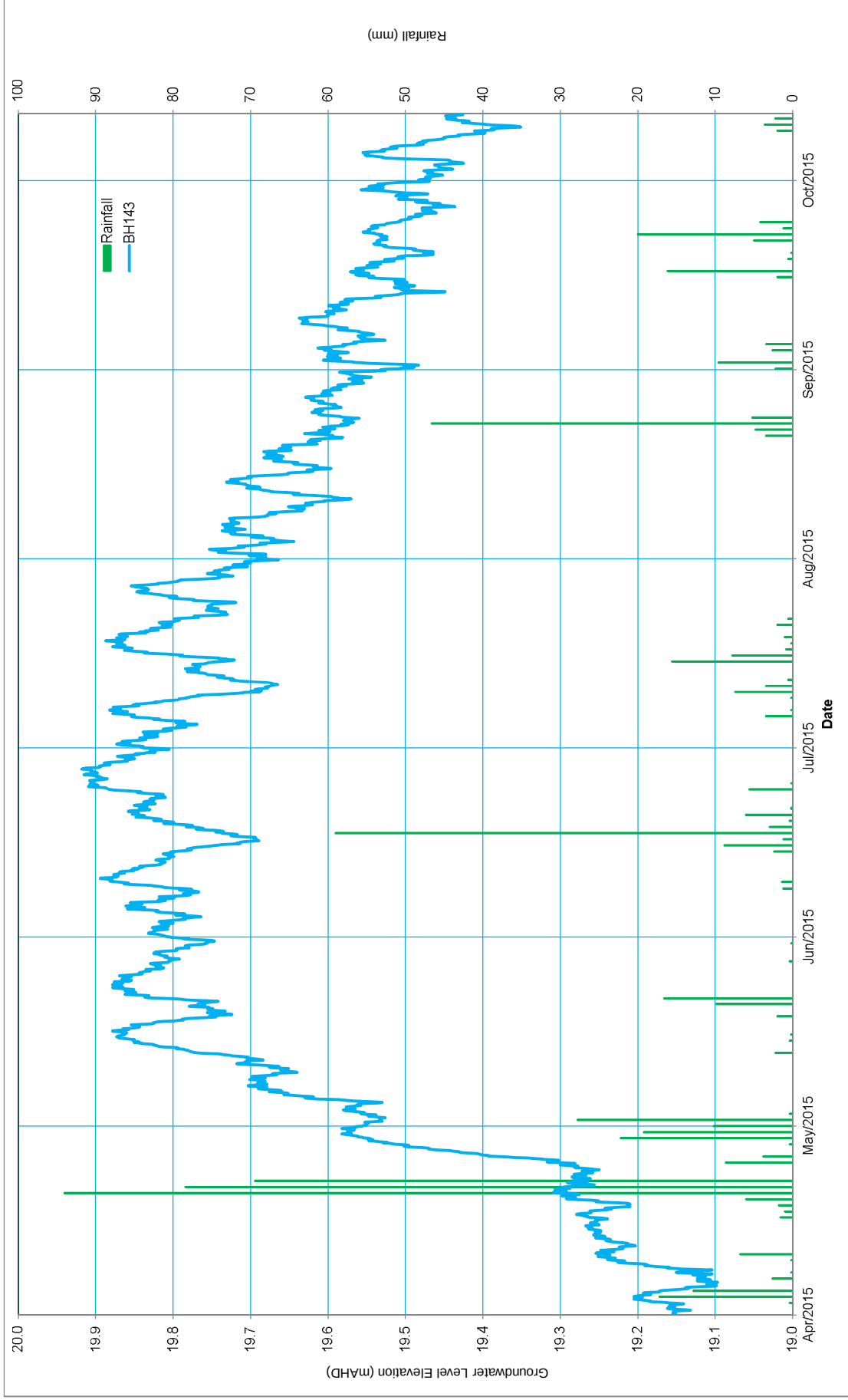


Title: Hydrograph BH137
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Bonalbo St, Kingsgrove

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

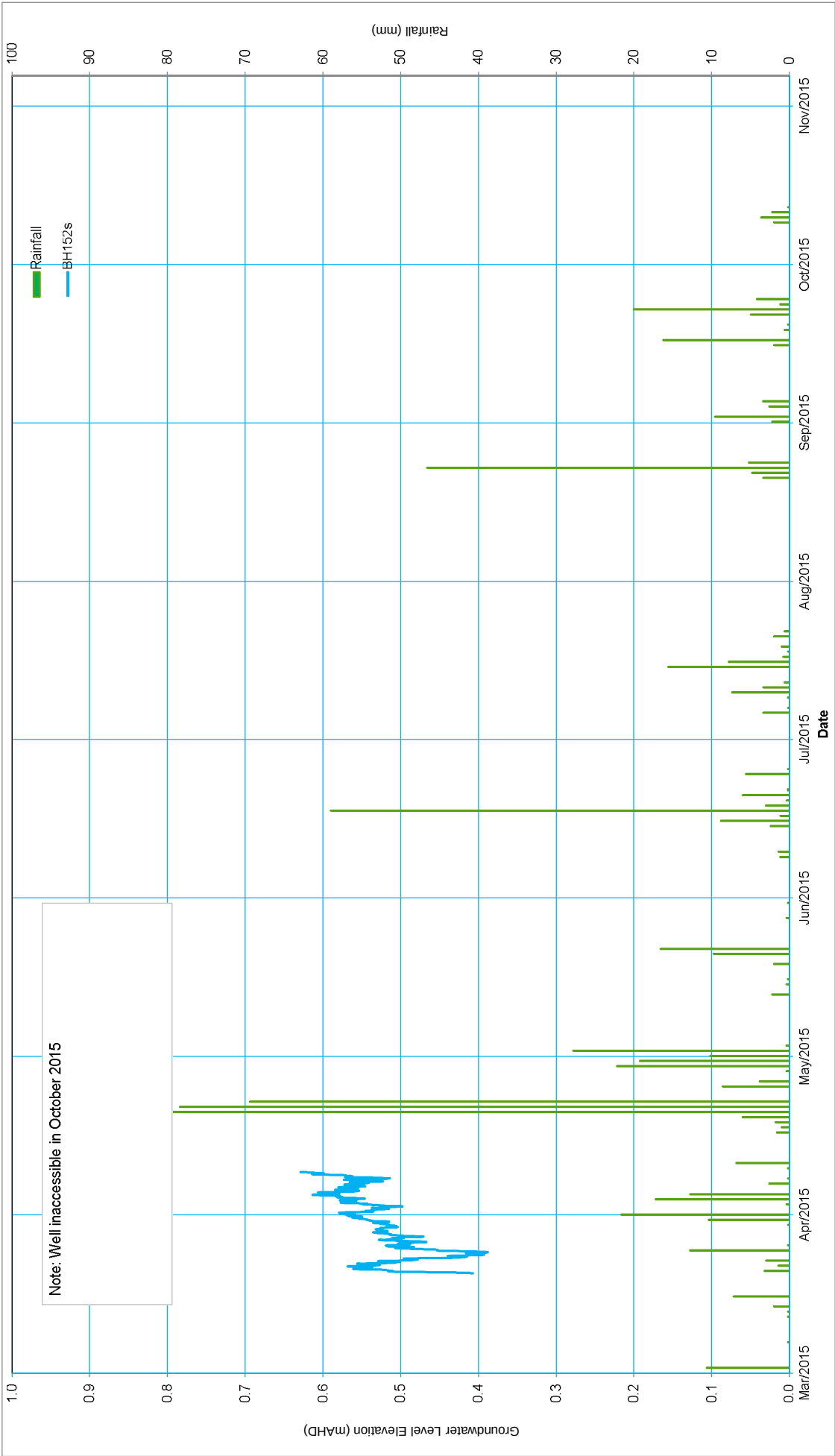
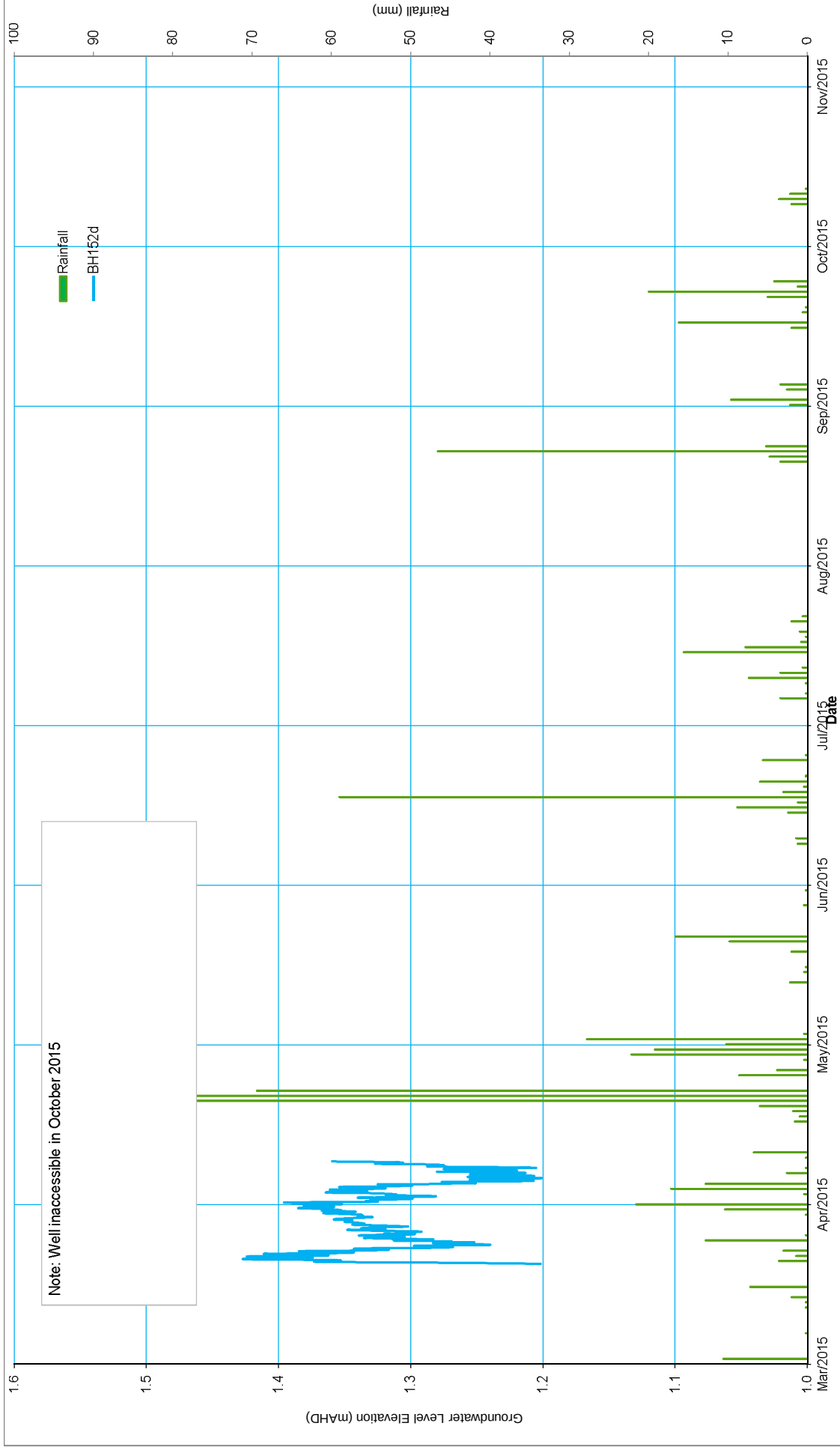


		Figure: D26		BH152s	
Title: Hydrograph BH152s		Screen Interval: 18.0 - 21.0 m		Project No: 60327128	
Project: West Connex - Stage 2		Lithology Screened: Alluvium			
Client: WestConnex Delivery Authority		Monitoring well elevation: 2.93 m AHD			
Location: Tempe Railway Station, Tempe		Rainfall measured at Sydney Airport BOM No 66037			

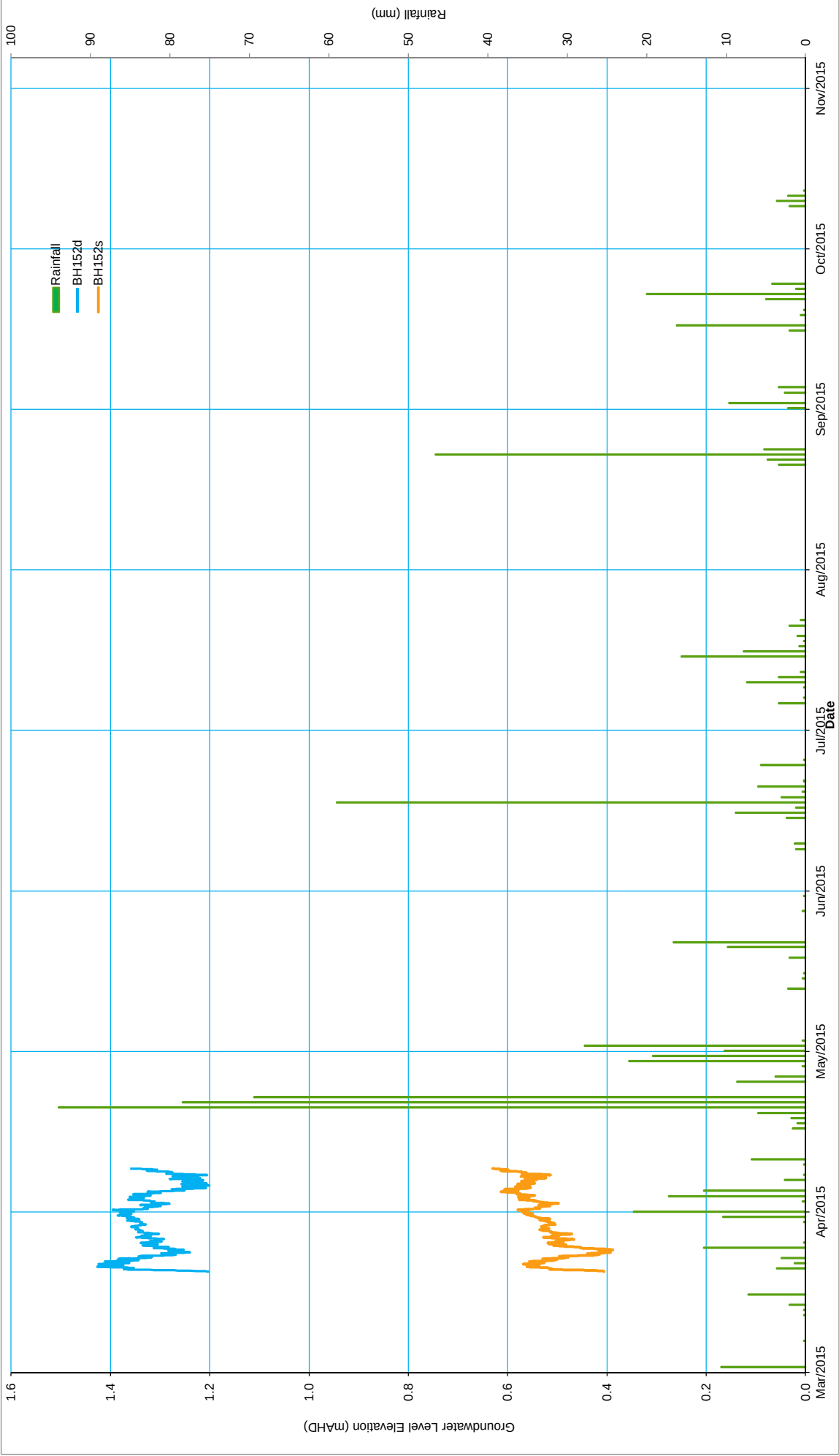


Title: Hydrograph BH152d
Project: West Connex - Stage 2
Client: WestConnex Delivery Authority
Location: Tempe Railway Station, Tempe

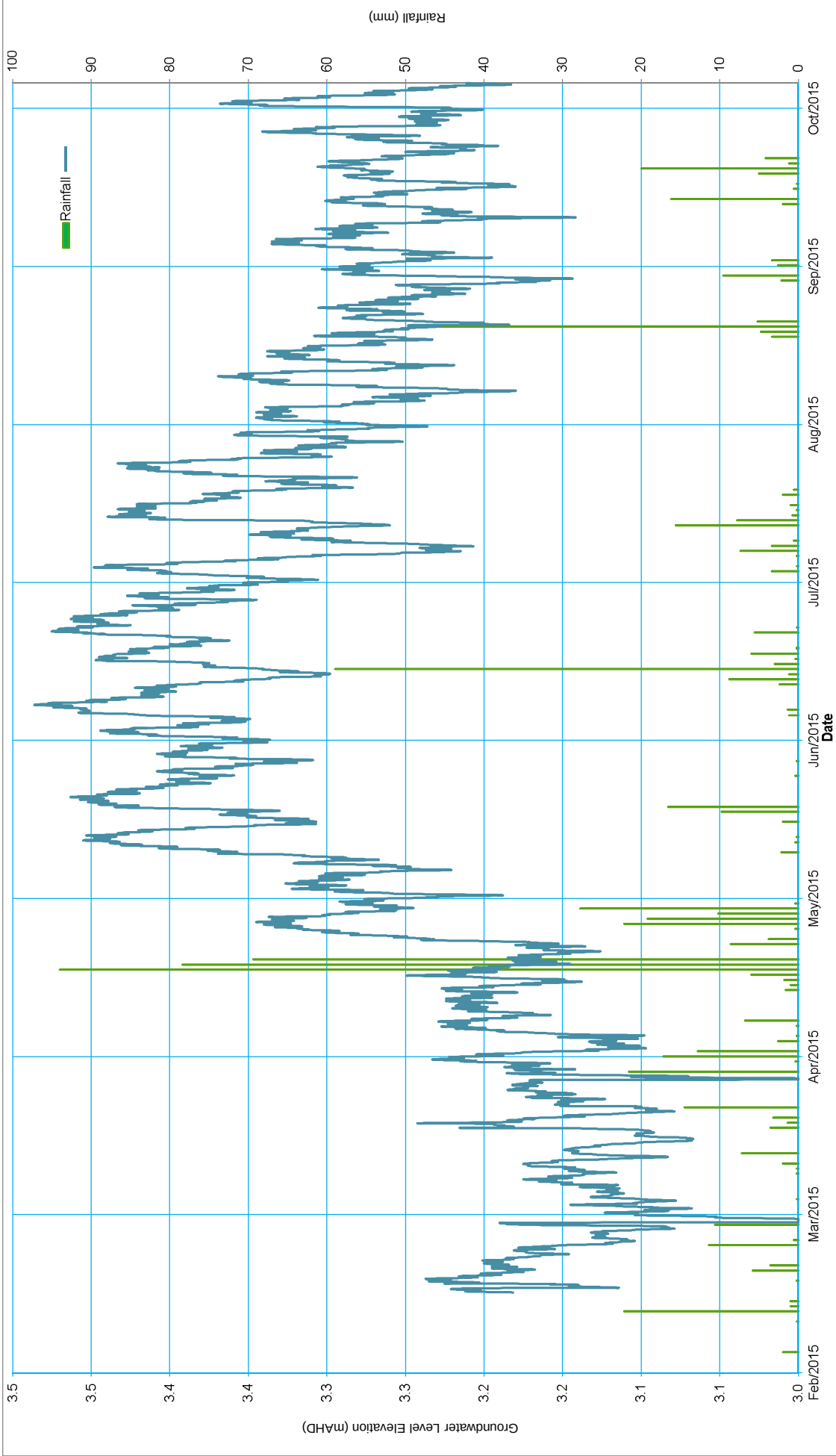
Screen Interval: 48.0 - 51.0 m
Lithology Screened: Hawkesbury Sandstone
Monitoring well elevation: 2.87 m AHD
Rainfall measured at Sydney Airport BOM No 66037

Figure: D27
Project No: 60327128

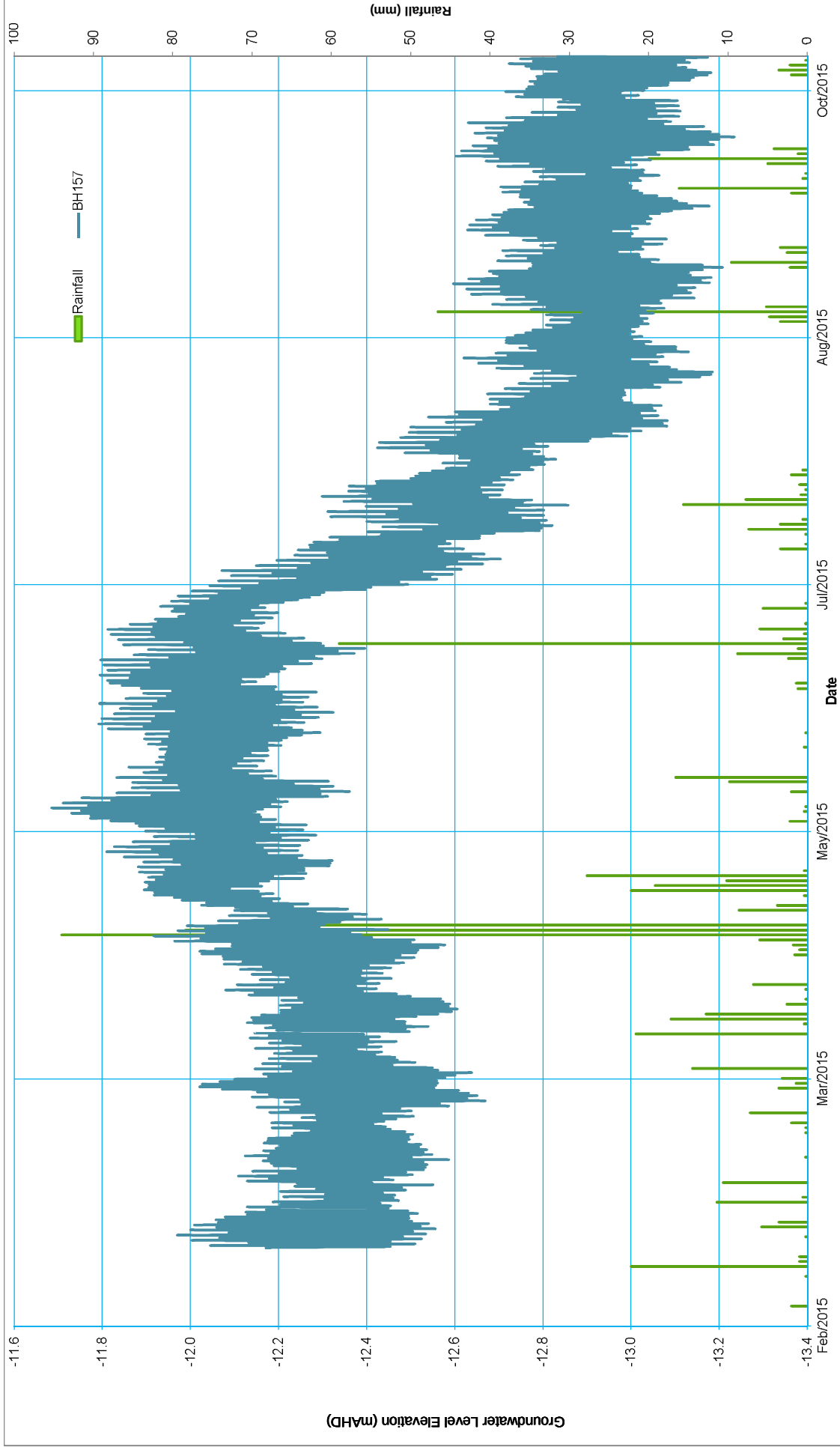
BH152d



		Hydrograph BH152d		Figure: D28		BH152d	
Title:		Project:		Screen Interval:		Project No:	
Client:		West Connex - Stage 2		Lithology Screened:		60327128	
Location:		WestConnex Delivery Authority		Monitoring well elevation:		2.87 m AHD	
		Tempe Railway Station, Tempe		Rainfall measured at Sydney Airport BOM No 66037			



		Hydrograph BH153		Screen Interval: 46.0 - 49.0 m		Figure: D29		BH153	
Project: West Connex - Stage 2		Lithology Screened: Hawkesbury Sandstone		Monitoring well elevation: 11.24 mAHD		Project No: 60327128			
Client: WestConnex Delivery Authority		Rainfall measured at Sydney Airport BOM No 66037							
Location: IKEA car park, Princes Highway, St Peters									



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

Annexure D – Groundwater Database Search

Table D1
F6 Extension
Crown Lands and Water Groundwater Database Search

Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW013930	6240079	328979	Domestic	Speare	N/A	7.60	4.50	7.50	Botany Bay Sand Beds	N/A	0.33	N/A
GW016114	6241370	329257	Recreation	Bore	01-Nov-57	13.70	3.30	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW017443	6239954	328878	Domestic	Speare	N/A	6.00	0.00	6.09	Botany Bay Sand Beds	N/A	N/A	N/A
GW017475	6241292	329624	Domestic	Speare	01-Jan-58	7.60	0.00	7.62	Botany Bay Sand Beds	N/A	N/A	N/A
GW023134	6239325	328994	Domestic	Speare	01-Dec-65	5.30	4.50	5.20	Botany Bay Sand Beds	N/A	N/A	Good
GW023135	6241220	329341	Cancelled	Speare	01-Dec-65	7.00	1.80	7.01	Botany Bay Sand Beds	1.80	0.25	N/A
GW023191	6242525	329041	Domestic	Speare	N/A	3.65	0.00	3.65	Botany Bay Sand Beds	N/A	0.30	N/A
GW023194	6242811	329156	Domestic	Speare	01-Nov-65	4.80	4.20	4.80	Botany Bay Sand Beds	3.30	0.35	Good
GW023257	6240242	329104	Irrigation	Speare	01-Nov-65	5.40	4.80	5.40	Botany Bay Sand Beds	3.60	0.35	Good
GW023285	6241201	329504	Domestic	Bore	01-Nov-65	5.70	0.60	5.70	Botany Bay Sand Beds	1.30	0.57	N/A
GW023288	6239819	328264	Domestic	Bore	01-Jan-66	5.10	4.50	5.10	Botany Bay Sand Beds	2.40	0.30	N/A
GW023291	6241725	329694	Domestic	Speare	01-Nov-65	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	0.30	N/A
GW023304	6240759	329120	Domestic	Speare	01-Nov-65	4.20	3.60	4.20	Botany Bay Sand Beds	3.30	0.35	Good
GW023354	6239505	327911	Domestic	Bore	01-Nov-65	3.60	-0.10	3.50	Botany Bay Sand Beds	1.30	0.63	Good
GW023423	6240915	329195	Public/ Municipal	Speare	01-Feb-66	4.50	3.90	4.50	Botany Bay Sand Beds	2.70	0.51	Good
GW023428	6239861	328880	NA	Speare	01-Feb-66	4.80	0.00	4.80	Botany Bay Sand Beds	N/A	0.35	Good
GW023439	6239937	328396	Domestic	Speare	01-Jan-66	5.10	4.50	5.10	Botany Bay Sand Beds	3.90	0.35	Good
GW023451	6241225	328965	Domestic	Speare	N/A	2.80	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW023477	6241065	328987	Domestic	Speare	01-Feb-66	6.40	5.80	6.30	Botany Bay Sand Beds	4.50	0.35	Good
GW023485	6239803	329061	Domestic	Speare	01-Jan-66	6.70	6.20	6.60	Botany Bay Sand Beds	N/A	N/A	N/A
GW023492	6239868	329239	Domestic	Speare	01-Feb-66	5.10	0.30	4.80	Botany Bay Sand Beds	3.60	0.35	Good
GW023495	6239445	328040	Domestic	Speare	01-Feb-66	5.40	4.80	5.40	Botany Bay Sand Beds	1.50	0.38	Good
GW023583	6240728	329095	Domestic	Speare	N/A	N/A	N/A	N/A	Botany Bay Sand Beds	3.60	0.13	N/A
GW023613	6239311	329147	Domestic	Speare	01-Mar-66	6.40	5.70	6.30	Botany Bay Sand Beds	4.50	0.34	N/A
GW023651	6240201	328899	Domestic	Speare	N/A	4.40	0.00	4.40	Botany Bay Sand Beds	N/A	0.30	N/A
GW023837	6240357	329051	Domestic	Speare	01-Jan-66	5.10	4.60	5.10	Botany Bay Sand Beds	3.60	0.35	Good
GW023838	6239870	329342	Domestic	Speare	01-Jan-66	4.80	4.20	4.80	Botany Bay Sand Beds	3.60	0.25	Good
GW023985	6239810	328146	Domestic	Speare	01-Feb-66	5.70	0.00	4.50	Botany Bay Sand Beds	N/A	0.48	N/A
GW024062	6242384	328680	Domestic	Speare	N/A	3.60	N/A	N/A	Botany Bay Sand Beds	1.50	N/A	N/A
GW024063	6239992	329288	Domestic	Speare	01-Jan-40	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW024109	6243538	329430	Domestic	Speare	01-Mar-66	2.10	0.00	2.10	Botany Bay Sand Beds	2.10	0.13	N/A
GW024319	6241443	329292	Domestic	Speare	01-Aug-66	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW024615	6239673	327814	Domestic	Speare	01-Jun-66	5.50	0.60	4.20	Botany Bay Sand Beds	N/A	N/A	N/A
GW024674	6239690	328714	Domestic	Speare	N/A	6.00	0.00	6.00	Botany Bay Sand Beds	6.00	0.32	N/A
GW025551	6239644	328320	Domestic	Speare	01-Jan-65	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A

Table D1
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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW025565	6240321	329189	Domestic	N/A	01-Nov-65	5.40	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW025713	6241790	329764	Cancelled	Spear	01-Dec-65	7.00	5.70	6.30	Botany Bay Sand Beds	4.50	0.35	Good
GW025719	6240095	328904	Domestic	Spear	N/A	5.40	4.80	5.40	Botany Bay Sand Beds	N/A	N/A	Brackish
GW025726	6240050	329061	Domestic	Spear	01-Jan-57	5.40	0.00	0.30	Botany Bay Sand Beds	N/A	N/A	Good
GW025816	6239506	329161	Domestic	Spear	01-Dec-65	6.00	0.00	5.60	Botany Bay Sand Beds	4.50	0.32	Good
GW026464	6240878	329241	Domestic	Spear	N/A	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW026648	6240653	328554	Domestic	Well	01-Jan-58	6.00	0.00	0.00	Botany Bay Sand Beds	N/A	N/A	Fair
GW026651	6240614	328564	Domestic	Spear	01-Feb-66	3.60	3.00	3.60	Botany Bay Sand Beds	2.10	0.51	Fair
GW027055	6240084	328958	Domestic	Spear	N/A	9.10	0.00	9.10	Botany Bay Sand Beds	N/A	0.38	N/A
GW027569	6240524	328925	Recreation	Spear	08-Dec-06	8.24	0.00	7.32	Botany Bay Sand Beds	3.66	1.00	Good
GW027570	6240315	328954	Recreation/ test hole	N/A	01-Jul-67	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW027664	6243417	329535	Cancelled	Bore	01-Jun-66	6.00	3.00	6.00	Botany Bay Sand Beds	0.70	1.01	N/A
GW031364	6241630	329614	Domestic	Spear	01-Apr-69	5.40	0.00	5.40	Botany Bay Sand Beds	3.30	0.15	N/A
GW064827	6241190	329061	Domestic	Bore	01-Nov-91	7.80	7.00	7.80	Botany Bay Sand Beds	N/A	N/A	N/A
GW072161	6243437	329636	Recreation	Bore	24-Feb-94	90.50	36.00	90.50	N/A	14.00	7.70	1600 µS/cm
GW072283	6241891	329810	Domestic	Spear	18-Dec-94	7.30	4.90	7.30	Botany Bay Sand Beds	7.30	1.00	Good
GW072299	6239397	329188	Domestic	Spear	05-Dec-94	8.40	6.10	8.40	Botany Bay Sand Beds	6.10	1.00	Good
GW072795	6239614	329217	Domestic	Spear	21-Jan-95	8.40	0.60	8.40	Botany Bay Sand Beds	5.20	1.00	Good
GW073139	6240159	328877	Domestic	Bore	20-Apr-95	8.00	0.00	4.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW073398	6239964	329023	Domestic	Spear	13-Aug-95	7.60	4.30	7.60	Botany Bay Sand Beds	4.30	1.00	Good
GW075059	6239286	328298	Monitoring bore	Bore	28-May-01	17.50	13.00	16.00	Ashfield Shale	N/A	N/A	180 µS/cm
GW100297	6241293	329353	Domestic	Spear	10-Aug-95	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW100444	6241725	329355	Domestic	Spear	22-Nov-96	5.49	1.83	5.49	Botany Bay Sand Beds	1.83	1.00	Good
GW100473	6240422	329118	Domestic	Spear	25-Mar-97	6.71	4.27	6.71	Botany Bay Sand Beds	N/A	1.00	Good
GW100740	6241812	329829	Domestic	Bore	24-Sep-96	8.23	5.33	8.23	Botany Bay Sand Beds	5.33	1.00	Good
GW101056	6239289	328377	Recreation	Spear	20-Jul-95	6.00	0.00	6.00	Botany Bay Sand Beds	4.00	5.00	N/A
GW101137	6240597	329079	Domestic	Spear	02-Jan-98	6.70	3.96	6.70	Botany Bay Sand Beds	3.97	0.75	Good
GW101214	6240113	329158	Domestic	Spear	02-Dec-97	7.01	0.00	7.01	Botany Bay Sand Beds	4.27	1.00	Good
GW101222	6241352	329521	Domestic	Spear	15-Dec-97	7.78	5.80	7.78	Botany Bay Sand Beds	5.80	1.00	Good
GW101224	6239465	329144	Domestic	Spear	06-Dec-97	7.62	4.27	7.62	Botany Bay Sand Beds	4.20	1.00	Good
GW101329	6239345	328158	Domestic	Spear	04-Feb-98	4.52	1.52	4.57	Botany Bay Sand Beds	1.52	1.00	Good
GW101433	6241377	329421	Domestic	Spear	15-Jan-98	5.49	2.75	5.49	Botany Bay Sand Beds	2.75	1.00	Good
GW101756	6241376	329452	Domestic	Bore	18-Jan-99	6.10	0.60	6.10	Botany Bay Sand Beds	3.36	1.00	Good
GW101818	6241491	329429	Domestic	Bore	30-May-95	5.50	0.00	5.50	Botany Bay Sand Beds	N/A	N/A	N/A
GW101826	6240060	329141	Domestic	Bore	27-Nov-95	6.10	3.66	6.10	Botany Bay Sand Beds	3.66	0.80	Good

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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW101827	6241338	329365	Domestic	Bore	03-Mar-99	7.93	2.44	7.93	Botany Bay Sand Beds	2.44	0.80	Good
GW102271	6240054	329339	Domestic	Spear	24-Apr-99	8.00	0.00	8.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW103152	6241753	329847	Domestic	Bore	30-Jul-00	8.24	5.18	8.23	Botany Bay Sand Beds	N/A	N/A	Good
GW104572	6240187	328997	Domestic	Bore	01-Jan-80	6.10	0.00	6.10	Botany Bay Sand Beds	3.04	N/A	N/A
GW105120	6239869	328362	Domestic	Bore	10-Oct-95	3.66	1.67	3.66	Botany Bay Sand Beds	1.67	0.50	Good
GW105153	6241078	328682	Domestic	Bore	13-Sep-95	5.49	0.00	5.49	Botany Bay Sand Beds	5.49	1.00	Good
GW105158	6240928	328744	Cancelled	Test bore	21-Oct-03	4.58	1.83	4.58	Botany Bay Sand Beds	1.83	1.00	N/A
GW105472	6239955	328921	Domestic	Bore	12-Sep-03	7.00	0.00	7.00	Botany Bay Sand Beds	4.00	1.00	N/A
GW105517	6241166	329074	Domestic	Bore	03-Nov-03	3.97	0.00	2.96	Botany Bay Sand Beds	1.22	1.00	N/A
GW105565	6241844	329779	Domestic	Bore	07-Oct-03	7.63	0.00	7.63	Botany Bay Sand Beds	4.58	N/A	N/A
GW105580	6244162	328812	Monitoring bore	Bore	17-Nov-03	3.50	1.00	3.50	Botany Bay Sand Beds	1.40	N/A	N/A
GW105587	6239572	328278	Domestic	Spear	17-Nov-03	6.00	5.40	6.00	Botany Bay Sand Beds	3.00	0.50	Good
GW105588	6241201	328884	Domestic	Spear	01-Nov-03	4.00	3.40	4.00	Botany Bay Sand Beds	2.10	0.50	Good
GW105591	6239790	328713	Domestic	Bore	15-Nov-03	6.00	5.40	6.00	Botany Bay Sand Beds	N/A	0.50	Good
GW105629	6240848	329353	Domestic	Spear	19-Nov-03	7.93	6.93	7.93	Botany Bay Sand Beds	4.27	1.50	N/A
GW105684	6239934	329350	Domestic	Spear	02-Mar-04	9.00	7.69	8.69	Botany Bay Sand Beds	5.95	1.00	N/A
GW105725	6241499	329590	Domestic	Spear	28-Jan-04	8.85	5.79	8.85	Botany Bay Sand Beds	5.80	1.00	N/A
GW105982	6241109	329420	Domestic	Spear	09-Jul-04	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW105995	6241725	329542	Domestic	Spear	22-Apr-04	4.58	3.58	4.58	Botany Bay Sand Beds	1.52	1.00	N/A
GW106112	6239629	328260	Domestic	Spear	23-Mar-04	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW106128	6240403	329365	Domestic	Spear	29-Dec-05	7.93	6.93	7.93	Botany Bay Sand Beds	1.88	1.00	Good
GW106167	6241148	328965	Domestic	Spear	28-May-04	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106175	6239529	328902	Domestic	Spear	18-Jun-04	6.00	3.40	6.00	Botany Bay Sand Beds	3.00	0.50	N/A
GW106179	6240243	328875	Domestic	Spear	06-Jul-04	4.50	3.40	3.50	Botany Bay Sand Beds	2.50	0.50	N/A
GW106185	6239666	329081	Domestic	Bore	04-Jul-05	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW106206	6241114	328768	Domestic	Spear	11-Aug-04	2.14	0.00	4.18	Botany Bay Sand Beds	2.13	1.00	N/A
GW106208	6240099	329191	Domestic	Spear	01-Jul-04	7.01	0.00	6.15	Botany Bay Sand Beds	3.96	1.00	Good
GW106224	6239628	329218	Domestic	Spear	13-Aug-04	6.00	3.40	6.00	Botany Bay Sand Beds	4.20	0.50	Good
GW106233	6241492	329311	Domestic	Spear	28-May-05	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106270	6239330	328024	Domestic	Spear	05-Sep-09	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106274	6241416	329645	Domestic	Spear	07-Jun-04	8.23	0.00	7.24	Botany Bay Sand Beds	4.88	1.00	Good
GW106277	6241108	329531	Domestic	Spear	09-Sep-04	6.50	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106360	6240513	329109	Domestic	Bore	22-Aug-05	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW106379	6239582	329036	Domestic	Spear	18-Aug-04	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	Good
GW106388	6239397	328095	Domestic	Spear	22-Sep-04	4.00	3.40	4.00	Botany Bay Sand Beds	N/A	0.50	N/A

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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW106421	6239435	327982	Domestic	Bore	01-Sep-05	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW106425	6241654	329546	Domestic	Spear	03-Aug-07	7.00	0.00	7.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106431	6239351	329015	Domestic	Spear	24-Aug-04	7.63	0.00	6.63	Botany Bay Sand Beds	4.57	1.00	Good
GW106450	6242025	329137	Cancelled	Spear	08-Oct-04	2.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW106461	6239938	329034	Domestic	Spear	19-Nov-04	4.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	Good
GW106474	6240237	329326	Domestic	Spear	18-Oct-04	7.63	0.00	6.63	Botany Bay Sand Beds	4.57	1.00	Good
GW106507	6241185	329430	Domestic	Spear	15-Oct-04	7.00	6.40	7.00	Botany Bay Sand Beds	4.00	0.50	Good
GW106563	6240180	329183	Domestic	Spear	15-Nov-04	6.71	5.71	6.71	Botany Bay Sand Beds	3.66	1.00	N/A
GW106579	6239857	328907	Domestic	Spear	21-Sep-04	6.10	0.00	5.10	Botany Bay Sand Beds	3.05	1.00	N/A
GW106587	6241165	328835	Domestic	Spear	11-Oct-04	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW106603	6239861	328868	Domestic	Spear	26-Sep-04	6.10	5.10	6.10	Botany Bay Sand Beds	2.74	1.00	N/A
GW106618	6239602	329055	Domestic	Spear	01-Jan-85	6.00	0.00	5.50	Botany Bay Sand Beds	N/A	N/A	N/A
GW106631	6241559	329709	Domestic	Spear	08-Nov-04	8.85	7.85	8.85	Botany Bay Sand Beds	5.19	1.00	N/A
GW106672	6240059	328816	Domestic	Spear	26-Mar-04	5.49	4.49	5.49	Botany Bay Sand Beds	3.05	1.00	N/A
GW106780	6239777	328998	Domestic	Spear	06-Dec-04	7.32	6.32	7.32	Botany Bay Sand Beds	3.96	1.00	N/A
GW106826	6241116	329417	Domestic	Spear	11-Mar-05	6.00	5.40	6.00	Botany Bay Sand Beds	3.00	0.50	Good
GW106860	6239444	328204	Domestic	Spear	22-Mar-05	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	Good
GW106873	6240956	329367	Domestic	Spear	29-Nov-04	7.63	6.63	7.63	Botany Bay Sand Beds	4.57	1.00	Good
GW106876	6240224	328884	Domestic	Spear	04-Feb-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106882	6239462	328073	Domestic	Spear	28-Dec-04	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106883	6239547	328884	Domestic	Spear	01-Dec-04	6.00	5.40	6.00	Botany Bay Sand Beds	3.00	0.50	Good
GW106889	6240403	329365	Domestic	Spear	29-Dec-05	7.93	6.93	7.93	Botany Bay Sand Beds	1.88	1.00	Good
GW106891	6241076	329358	Domestic	Spear	28-Dec-04	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106897	6241175	329482	Domestic	Spear	11-Jan-05	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	Good
GW106907	6239624	328303	Domestic	Spear	01-Feb-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW106946	6240220	329194	Domestic	Spear	06-Apr-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106949	6239957	328894	Domestic	Spear	05-Feb-05	5.79	6.48	7.48	Botany Bay Sand Beds	3.05	1.00	Good
GW106975	6241009	328996	Domestic	Spear	02-Feb-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW106982	6241829	329381	Recreation	Bore	07-Feb-05	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106984	6239335	328224	Domestic	Spear	06-Apr-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW106986	6240440	329144	Domestic	Spear	04-Jun-04	7.02	6.02	7.02	Botany Bay Sand Beds	3.97	1.00	Good
GW106989	6241800	329673	Irrigation	Bore	01-Jan-60	5.00	0.00	5.00	Botany Bay Sand Beds	1.50	13.00	N/A
GW106992	6241959	329768	Irrigation	Bore	01-Jan-50	5.00	0.00	5.00	Botany Bay Sand Beds	1.30	7.00	N/A
GW106993	6241878	329737	Irrigation	Bore	01-Jan-50	5.00	0.00	5.00	Botany Bay Sand Beds	1.30	7.00	N/A
GW107026	6240060	329415	Domestic	Spear	01-Mar-05	9.76	0.00	9.76	Botany Bay Sand Beds	6.10	1.00	Good

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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW107045	6239475	328194	Domestic	Spears	21-Mar-05	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107105	6240288	329190	Domestic	Spears	21-Jun-04	7.26	6.10	7.10	Botany Bay Sand Beds	3.97	1.00	Good
GW107114	6239739	328266	Domestic	Spears	01-Feb-04	5.85	4.27	5.85	Botany Bay Sand Beds	3.10	1.00	Good
GW107121	6241572	329511	Domestic	Spears	06-Apr-05	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107148	6241067	328708	Domestic	Spears	25-May-05	5.80	0.00	5.80	Botany Bay Sand Beds	1.53	1.00	N/A
GW107166	6241077	328933	Domestic	Spears	14-Jun-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107184	6239370	328279	Domestic	Spears	08-Jul-05	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107192	6239782	328990	Domestic	Spears	11-Jul-05	7.32	0.00	7.32	Botany Bay Sand Beds	4.27	1.00	N/A
GW107207	6241261	328937	Domestic	Spears	24-May-05	4.00	3.40	4.00	Botany Bay Sand Beds	N/A	0.50	N/A
GW107216	6239521	328880	Domestic	Spears	01-Jun-05	6.00	5.40	6.00	Botany Bay Sand Beds	3.00	0.50	N/A
GW107269	6241329	328962	Domestic	Spears	16-Dec-04	7.50	3.00	6.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW107297	6239819	328311	Domestic	Spears	20-May-05	5.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107299	6239787	328296	Domestic	Spears	21-Aug-05	5.60	5.60	6.40	Botany Bay Sand Beds	N/A	N/A	N/A
GW107302	6241578	329544	Domestic	Spears	15-Aug-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107306	6241554	329547	Domestic	Spears	06-Sep-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107314	6239250	329127	Domestic	Spears	26-Jun-05	8.23	7.63	8.23	Botany Bay Sand Beds	4.88	1.00	Good
GW107317	6241199	329441	Domestic	Spears	18-Aug-05	7.32	6.41	7.01	Botany Bay Sand Beds	3.91	1.00	Good
GW107318	6241439	329657	Domestic	Spears	25-Apr-05	7.63	6.71	7.31	Botany Bay Sand Beds	4.58	1.00	Good
GW107344	6241062	328694	Domestic	Spears	08-Aug-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107346	6241570	329604	Domestic	Spears	17-Sep-05	9.76	8.85	9.45	Botany Bay Sand Beds	6.41	1.00	Good
GW107349	6240534	329051	Domestic	Spears	02-Sep-05	7.32	6.71	7.31	Botany Bay Sand Beds	3.97	1.00	Good
GW107356	6241701	329677	Domestic	Spears	11-Aug-05	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	Good
GW107357	6239655	328318	Domestic	Spears	25-Aug-05	6.10	5.18	5.79	Botany Bay Sand Beds	3.50	1.00	Good
GW107364	6239700	328345	Domestic	Spears	24-Aug-05	5.18	4.27	4.87	Botany Bay Sand Beds	3.36	1.00	Hard
GW107370	6241228	329367	Domestic	Bore	25-Oct-05	7.00	0.00	7.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107371	6240229	328928	Domestic	Spears	21-Jun-05	6.71	5.80	6.40	Botany Bay Sand Beds	3.66	1.00	Good
GW107372	6239656	328314	Domestic	Spears	23-Oct-04	5.79	4.79	5.40	Botany Bay Sand Beds	1.83	1.00	Good
GW107373	6239678	328203	Domestic	Spears	05-May-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107374	6239739	328181	Domestic	Spears	01-Oct-05	10.00	0.00	10.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107423	6240112	328849	Domestic	Spears	08-Aug-05	5.79	4.88	5.48	Botany Bay Sand Beds	2.75	1.00	Good
GW107442	6241380	329526	Domestic	Spears	08-Aug-05	9.15	8.24	8.84	Botany Bay Sand Beds	6.10	1.00	Good
GW107450	6239543	328822	Domestic	Spears	26-Aug-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107484	6239688	328152	Domestic	Spears	01-Jan-04	15.00	0.00	15.00	Botany Bay Sand Beds	N/A	0.00	N/A
GW107493	6239646	329235	Domestic	Spears	08-Oct-05	7.32	6.72	7.32	Botany Bay Sand Beds	4.27	1.00	Good
GW107506	6239223	328113	Domestic	Spears	29-Sep-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good

Table D1
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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW107511	6241428	329520	Domestic	Spear	15-Oct-05	8.23	7.32	7.92	Botany Bay Sand Beds	5.19	1.00	Good
GW107531	6240860	328900	Industrial	Bore	19-Oct-05	14.00	12.00	14.00	Botany Bay Sand Beds	2.00	1.00	Good
GW107540	6241057	328955	Domestic	Spear	30-Oct-05	7.00	0.00	7.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107541	6241518	329529	Domestic	Spear	30-Oct-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107542	6240211	329294	Domestic	Spear	11-Nov-05	7.32	6.41	7.01	Botany Bay Sand Beds	4.37	1.00	Good
GW107580	6242015	327849	Domestic	Spear	27-Oct-06	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107605	6241799	329758	Domestic	Spear	03-Oct-05	8.54	7.63	8.23	Botany Bay Sand Beds	5.49	1.00	Good
GW107606	6239694	328128	unknown	Spear	30-Oct-05	7.00	0.00	7.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW107622	6239523	328963	Domestic	Spear	17-Nov-05	7.00	6.10	6.70	Botany Bay Sand Beds	3.97	1.00	Good
GW107650	6241205	328941	Domestic	Spear	15-Nov-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107661	6239330	329112	Domestic	Spear	16-Nov-05	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW107662	6240359	329184	Domestic	Spear	08-Dec-05	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	Good
GW107682	6239195	328180	Domestic	Spear	05-Oct-05	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW107689	6241134	329337	Domestic	Spear	20-Nov-05	7.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107731	6239636	329182	Domestic	Spear	10-Jan-06	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW107735	6239338	329128	Domestic	Spear	09-Jan-06	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW107743	6239755	328152	Domestic	Spear	10-Jan-06	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107744	6241134	328942	Domestic	Spear	06-Jan-06	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107746	6241286	329533	Domestic	Spear	10-Jan-06	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107747	6239325	328127	Domestic	Spear	13-May-01	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107753	6244219	328820	monitoring bore	Bore	04-Oct-05	5.00	0.50	5.00	Botany Bay Sand Beds	1.30	N/A	N/A
GW107754	6244202	328806	monitoring bore	Bore	04-Oct-05	4.80	0.50	4.80	Botany Bay Sand Beds	1.80	N/A	N/A
GW107775	6239382	328929	Domestic	Spear	28-Jan-06	6.71	5.80	6.40	Botany Bay Sand Beds	3.05	1.00	Good
GW107780	6241029	329441	Domestic	Spear	08-Feb-06	8.85	7.63	8.23	Botany Bay Sand Beds	5.49	1.00	Good
GW107799	6239675	328094	Domestic	Spear	05-Nov-06	5.50	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107803	6239828	328889	Domestic	Spear	28-Nov-05	6.10	5.19	5.79	Botany Bay Sand Beds	3.50	1.00	Good
GW107849	6239463	328229	Domestic	Spear	02-Mar-06	7.00	6.40	7.00	Botany Bay Sand Beds	2.00	0.50	Good
GW107852	6241261	329559	Domestic	Spear	01-Jan-03	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107857	6240787	329237	Domestic	Spear	10-Mar-06	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	N/A
GW107859	6239468	328213	Domestic	Spear	02-Mar-06	7.00	6.40	7.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW107870	6241380	329385	Domestic	Spear	13-Mar-04	4.27	N/A	N/A	Botany Bay Sand Beds	1.53	1.00	N/A
GW107876	6239772	328714	Domestic	Bore	01-Jan-05	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107887	6239609	328910	Domestic	Spear	07-Feb-06	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	N/A
GW107889	6239363	329076	Domestic	Spear	03-Feb-06	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	N/A
GW107890	6241019	328920	Domestic	Spear	11-Feb-06	5.00	4.40	5.00	Botany Bay Sand Beds	2.00	0.50	N/A

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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW107896	6239785	329011	Domestic	Spear	07-Feb-06	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	N/A
GW107911	6239811	328301	Domestic	Spear	04-Apr-06	5.50	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107972	6241483	329505	Domestic	Spear	10-Apr-06	7.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107973	6240321	329119	Domestic	Spear	20-Apr-07	7.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW107977	6241924	329847	Domestic	Spear	09-May-05	5.80	4.88	5.48	Botany Bay Sand Beds	2.75	1.00	N/A
GW107985	6241455	329378	Domestic	Spear	21-Mar-06	5.50	4.55	5.15	Botany Bay Sand Beds	2.14	1.00	N/A
GW108006	6241091	328936	Domestic	Spear	22-Aug-05	4.00	3.10	3.70	Botany Bay Sand Beds	1.22	1.00	N/A
GW108050	6239952	328788	Domestic	Spear	09-Aug-06	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW108084	6239282	328028	Domestic	Spear	13-May-06	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108096	6241369	329617	Domestic	Spear	20-Apr-04	7.30	6.40	7.00	Botany Bay Sand Beds	4.20	1.00	N/A
GW108277	6241219	329276	Domestic	Bore	01-Jan-93	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108288	6239430	328032	Domestic	Spear	30-Oct-06	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW108295	6242466	328907	Domestic	Spear	01-Nov-06	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108298	6240927	329243	Domestic	Spear	20-Oct-06	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108300	6240444	329162	Domestic	Spear	30-Oct-06	7.30	6.10	6.70	Botany Bay Sand Beds	3.97	1.00	N/A
GW108404	6241100	328864	Domestic	Spear	01-Dec-06	7.60	6.70	7.60	Botany Bay Sand Beds	1.53	1.00	Good
GW108406	6243455	329510	Domestic	Spear	28-Nov-06	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108416	6239814	328340	Domestic	Spear	10-Feb-07	5.00	3.00	3.60	Botany Bay Sand Beds	N/A	N/A	N/A
GW108432	6241070	329311	Domestic	Spear	17-Jan-07	7.90	7.15	7.93	Botany Bay Sand Beds	4.88	1.00	Good
GW108439	6242478	328893	Domestic	Spear	05-Jan-07	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108441	6241335	329358	Domestic	Spear	17-Jan-07	8.54	7.60	8.50	Botany Bay Sand Beds	N/A	1.00	Good
GW108449	6240138	328964	Domestic	Spear	23-Jan-07	7.00	6.10	7.00	Botany Bay Sand Beds	3.60	1.00	Good
GW108454	6241384	329548	Domestic	Spear	30-Jan-07	9.46	8.85	9.45	Botany Bay Sand Beds	6.41	1.00	Good
GW108473	6239990	328845	Domestic	Spear	06-Feb-07	6.00	0.00	4.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW108496	6239799	328859	Domestic	Spear	05-Feb-07	6.10	5.50	6.10	Botany Bay Sand Beds	2.75	1.00	Good
GW108534	6241155	329526	Domestic	Spear	30-Jan-07	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW108539	6241597	329614	Domestic	Spear	22-Jan-07	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW108551	6239823	328057	Domestic	Spear	08-Feb-07	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108559	6239821	328966	Domestic	Spear	13-Feb-07	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	Good
GW108568	6239625	328939	Domestic	Spear	18-Mar-07	7.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108573	6241203	329427	Domestic	Spear	06-Mar-07	7.93	7.00	7.60	Botany Bay Sand Beds	3.97	1.00	Good
GW108578	6241562	329443	Domestic	Spear	20-Mar-07	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108588	6243429	329440	Domestic	Spear	03-Feb-07	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108590	6241219	328570	Domestic	Spear	13-Mar-07	4.00	3.37	3.96	Botany Bay Sand Beds	2.14	5.00	Good
GW108597	6241136	329370	Domestic	Spear	27-Feb-07	8.54	7.60	8.20	Botany Bay Sand Beds	5.49	1.00	Good

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Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW108600	6239718	328288	Domestic	Spears	13-Mar-07	5.80	4.88	5.48	Botany Bay Sand Beds	5.80	1.00	Good
GW108623	6240951	329103	Domestic	Spears	07-Apr-06	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	Good
GW108625	6241349	329558	Domestic	Spears	22-Nov-07	9.46	N/A	N/A	Botany Bay Sand Beds	5.49	1.00	Good
GW108633	6239502	329170	Domestic	Spears	06-Nov-04	7.30	6.32	6.92	Botany Bay Sand Beds	4.27	1.00	Good
GW108713	6241662	329758	Domestic	Spears	10-Apr-07	9.15	8.23	8.83	Botany Bay Sand Beds	6.10	1.00	Good
GW108715	6239384	329037	Domestic	Spears	30-Apr-07	7.93	7.00	7.60	Botany Bay Sand Beds	4.21	1.00	Good
GW108717	6241680	329344	Domestic	Spears	06-Apr-07	5.18	4.27	4.87	Botany Bay Sand Beds	1.53	1.00	Good
GW108743	6239487	328946	Domestic	Spears	28-Mar-07	7.32	6.40	7.00	Botany Bay Sand Beds	3.66	1.00	Good
GW108744	6241678	329763	Domestic	Spears	25-Feb-07	9.15	8.23	8.23	Botany Bay Sand Beds	N/A	1.00	Good
GW108777	6239450	328043	Domestic	Spears	10-Apr-07	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	Good
GW108796	6240315	329087	Domestic	Spears	04-Jun-07	7.63	6.71	7.23	Botany Bay Sand Beds	4.27	1.00	Good
GW108832	6241318	329422	Domestic	Spears	24-Apr-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108870	6242290	329102	Irrigation	Excavation	12-May-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108887	6239637	329208	Domestic	Spears	30-May-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108915	6239806	329066	Domestic	Spears	12-Jun-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108927	6239644	328196	Domestic	Spears	18-Jun-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108937	6240329	329073	Domestic	Spears	19-Jun-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108982	6240194	329203	Domestic	Spears	30-Jun-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108993	6240852	329294	Domestic	Spears	08-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW108999	6239933	328409	Domestic	Spears	09-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109004	6241191	329531	Domestic	Spears	09-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109015	6241398	328719	Domestic	Spears	10-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109027	6239346	327961	Domestic	Spears	11-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109045	6240772	329220	Domestic	Spears	15-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109092	6241374	329139	Domestic	Spears	22-Jul-08	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	good
GW109102	6239406	328185	Domestic	Spears	23-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109103	6239794	328953	Domestic	Spears	23-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109121	6241189	328852	Domestic	Spears	25-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109123	6239910	328404	Domestic	Spears	28-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109131	6239718	328763	Domestic	Spears	29-Jul-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109144	6239705	328788	Domestic	Spears	04-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109166	6241454	329700	Domestic	Spears	06-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109183	6239584	328021	Domestic	Bore	08-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109223	6240992	329284	Domestic	Spears	18-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109258	6241384	329488	Domestic	Spears	22-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A

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Crown Lands and Water Groundwater Database Search

Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW109267	6239468	329057	Domestic	Spears	26-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109268	6240237	329178	Domestic	Spears	26-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109273	6239889	328835	Domestic	Spears	27-Aug-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109314	6240075	329361	Domestic	Spears	09-Sep-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109419	6240490	329176	Domestic	Spears	14-Oct-08	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109559	6239686	328174	Domestic	Spears	27-Aug-08	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW109581	6241199	329447	Domestic	Spears	17-Aug-08	7.32	0.00	6.40	Botany Bay Sand Beds	4.27	1.00	good
GW109657	6239850	328796	Domestic	Spears	17-Sep-08	7.00	0.00	6.50	Botany Bay Sand Beds	1.50	0.50	good
GW109665	6240095	329066	Domestic	Spears	09-Sep-08	6.00	0.00	5.40	Botany Bay Sand Beds	3.00	0.50	good
GW109697	6241451	329463	Domestic	Spears	07-May-08	6.10	0.00	5.20	Botany Bay Sand Beds	2.14	1.00	good
GW109932	6241763	329742	Domestic	Spears	28-Jan-09	7.32	0.00	6.40	Botany Bay Sand Beds	4.27	1.00	good
GW109934	6240770	329135	Domestic	Bore	18-Dec-08	6.00	0.00	5.40	Botany Bay Sand Beds	3.00	0.50	good
GW109935	6239515	329018	Domestic	Spears	27-Nov-08	7.63	0.00	6.70	Botany Bay Sand Beds	3.66	1.00	good
GW109945	6239519	329184	Domestic	Spears	22-Dec-08	7.50	7.00	7.50	Botany Bay Sand Beds	4.00	0.50	good
GW109963	6243406	329446	Domestic	Spears	28-Nov-06	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109964	6243419	329426	Domestic	Spears	28-Nov-06	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109965	6243467	329489	Domestic	Bore	28-Nov-06	8.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW109966	6243465	329373	Domestic	Spears	17-Mar-09	3.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW110097	6240265	329101	Domestic	Spears	18-Sep-04	6.71	0.00	5.79	Botany Bay Sand Beds	3.05	1.00	good
GW110098	6241771	329837	Domestic	Spears	23-Feb-06	8.23	0.00	6.00	Botany Bay Sand Beds	4.58	1.00	good
GW110167	6239799	328939	Domestic	Spears	20-May-09	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	good
GW110189	6239752	328722	Domestic	Spears	01-Apr-08	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW110219	6239754	328220	Domestic	Spears	07-Sep-07	6.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW110220	6241302	329530	Domestic	Spears	07-Sep-07	6.00	0.00	4.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW110229	6240193	328974	Domestic	Spears	28-Oct-05	7.32	0.00	6.00	Botany Bay Sand Beds	3.97	1.00	good
GW110271	6239786	328305	Domestic	Spears	30-Aug-07	6.00	3.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW110272	6240776	329207	Domestic	Spears	30-Oct-07	7.00	0.00	6.00	Botany Bay Sand Beds	3.97	1.00	good
GW110274	6241147	328930	Domestic	Bore	01-Jan-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW110418	6239351	328943	Domestic	Spears	04-Mar-09	6.00	0.00	5.40	Botany Bay Sand Beds	4.00	0.50	good
GW110422	6239721	328883	Domestic	Spears	28-Feb-09	6.00	0.00	5.40	Botany Bay Sand Beds	4.00	0.50	good
GW110441	6241669	329844	Domestic	Spears	08-Sep-09	8.54	0.00	7.60	Botany Bay Sand Beds	5.49	1.00	good
GW110442	6239779	329055	Domestic	Spears	28-Apr-09	6.00	5.40	6.00	Botany Bay Sand Beds	4.00	0.50	good
GW110528	6241326	329441	Domestic	Spears	19-Oct-09	6.71	0.00	5.80	Botany Bay Sand Beds	3.66	1.00	good
GW110541	6239952	329062	Domestic	Bore	28-Sep-09	7.00	0.00	6.00	Botany Bay Sand Beds	3.66	1.00	good
GW110558	6241043	329484	Domestic	Spears	10-Nov-09	7.00	6.70	7.00	Botany Bay Sand Beds	5.00	0.50	good

Table D1
F6 Extension
Crown Lands and Water Groundwater Database Search

Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW110652	6239608	328857	Domestic	Spear	23-Jan-07	5.49	0.00	4.58	Botany Bay Sand Beds	1.83	1.00	good
GW110654	6241300	329432	Domestic	Spear	28-Nov-06	7.93	0.00	6.00	Botany Bay Sand Beds	3.97	1.00	good
GW110656	6241283	329515	Domestic	Spear	24-Feb-07	7.93	0.00	6.00	Botany Bay Sand Beds	4.88	1.00	good
GW110691	6240058	329325	Domestic	Spear	23-Feb-07	8.54	0.00	6.00	Botany Bay Sand Beds	5.19	1.00	good
GW110735	6242529	328935	Domestic	Bore	01-Jan-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW110781	6240951	329378	Domestic	Spear	17-Feb-07	8.54	0.00	6.00	Botany Bay Sand Beds	5.49	1.00	good
GW110844	6241653	329560	Domestic	Spear	24-Nov-04	5.50	0.00	4.50	Botany Bay Sand Beds	1.83	1.00	good
GW110846	6241836	329842	Domestic	Spear	01-Jan-07	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW110855	6240081	329306	Domestic	Spear	04-Apr-10	9.21	0.30	8.60	Botany Bay Sand Beds	5.70	1.00	N/A
GW110865	6239442	328020	Domestic	Spear	13-Apr-10	4.00	3.40	4.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW110868	6240784	329137	Domestic	Spear	14-Apr-10	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW110897	6241414	329613	Domestic	Spear	25-May-10	8.54	0.00	7.60	Botany Bay Sand Beds	5.18	1.00	good
GW110898	6240137	329382	Domestic	Spear	22-May-10	8.54	0.00	7.93	Botany Bay Sand Beds	5.49	1.00	good
GW110953	6241305	329514	Domestic	Spear	17-Jun-10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW111017	6240163	328855	Domestic	Spear	30-Aug-05	6.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111037	6240273	329106	Domestic	Spear	30-May-09	6.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111091	6241134	329330	Domestic	Spear	24-Aug-07	7.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111140	6239488	328884	Domestic	Bore	31-Jul-05	7.00	0.00	6.20	Botany Bay Sand Beds	N/A	N/A	N/A
GW111149	6240894	329281	Domestic	Spear	31-May-07	7.00	0.00	6.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111172	6240202	329222	Domestic	Bore	01-Jan-05	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW111224	6241720	329456	Domestic	Spear	22-Aug-10	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	good
GW111229	6239461	327983	Domestic	Spear	10-Oct-06	6.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111285	6239304	328179	Domestic	Spear	01-Jan-07	9.00	N/A	N/A	Botany Bay Sand Beds	5.00	0.50	N/A
GW111296	6241594	329337	Domestic	Spear	20-Apr-10	5.49	0.00	4.50	Botany Bay Sand Beds	1.53	1.00	N/A
GW111316	6242538	329333	Test Bore	Bore	01-Mar-10	162.00	45.00	142.00	sandstone	4.00	2.00	
GW111344	6244166	329132	Monitoring	Bore	29-Sep-10	4.00	2.00	4.00	Botany Bay Sand Beds	1.55	N/A	N/A
GW111345	6244179	329154	Monitoring	Bore	29-Sep-10	4.00	1.20	4.00	Botany Bay Sand Beds	1.24	N/A	N/A
GW111346	6244147	329177	Domestic	Spear	29-Sep-10	4.00	1.20	4.00	Botany Bay Sand Beds	1.25	N/A	N/A
GW111414	6239302	328189	Domestic	Spear	30-Apr-07	6.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111443	6240144	329318	Domestic	Spear	12-Feb-07	9.15	0.00	4.90	Botany Bay Sand Beds	4.89	1.00	good
GW111482	6240987	329300	Domestic	Spear	23-May-11	7.63	0.00	6.71	Botany Bay Sand Beds	4.27	1.00	good
GW111497	6239805	328776	Domestic	Spear	25-May-06	6.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111558	6241185	328867	Domestic	Spear	31-Jan-07	6.00	2.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111561	6239682	328049	Domestic	Spear	21-Jan-07	6.00	0.00	5.00	Botany Bay Sand Beds	N/A	N/A	N/A
GW111580	6239865	328890	Domestic	Bore	15-Aug-11	5.80	0.00	4.80	Botany Bay Sand Beds	2.75	1.00	good

Table D1
F6 Extension
Crown Lands and Water Groundwater Database Search

Bore	Easting	Northing	Authorised purpose	Type	Date installed	Depth (mbgl)	Screen top (mbgl)	Screen base (mbgl)	Aquifer	SWL (mbgl)	Yield L/sec	Water Quality
GW111666	6240243	329316	Domestic	Spear	16-Jan-12	7.63	0.00	6.00	Botany Bay Sand Beds	4.58	1.00	good
GW111710	6241203	329513	Domestic	Spear	28-Nov-10	7.00	6.40	7.00	Botany Bay Sand Beds	5.00	0.50	good
GW111713	6240358	329181	Domestic	Spear	28-May-09	7.93	0.00	6.70	Botany Bay Sand Beds	4.27	1.00	good
GW111743	6241389	329367	Domestic	Spear	28-Mar-11	3.96	0.60	3.96	Botany Bay Sand Beds	1.53	1.00	good
GW111762	6239606	328027	Domestic	Spear	01-May-05	5.50	N/A	N/A	Botany Bay Sand Beds	2.00	N/A	N/A
GW111769	6240430	329200	Domestic	Spear	01-Aug-05	7.60	N/A	N/A	Botany Bay Sand Beds	4.58	1.00	good
GW111782	6240375	329296	Domestic	Spear	01-Jan-06	8.00	N/A	N/A	Botany Bay Sand Beds	2.50	1.00	N/A
GW111790	6242513	328909	Domestic	Spear	01-Jan-07	6.00	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW111885	6241773	329705	Domestic	Spear	24-Jan-07	6.00	N/A	N/A	Botany Bay Sand Beds	3.00	1.00	N/A
GW111888	6241004	329425	Domestic	Spear	17-Dec-06	8.80	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW111895	6241860	329796	Domestic	Spear	16-Jan-06	N/A	N/A	N/A	Botany Bay Sand Beds	N/A	N/A	N/A
GW111899	6239366	329100	Domestic	Spear	01-Jan-07	6.00	N/A	N/A	Botany Bay Sand Beds	4.00	0.50	N/A
GW111906	6239313	328120	Domestic	Spear	06-Dec-07	6.00	N/A	N/A	Botany Bay Sand Beds	2.00	N/A	N/A
GW111925	6239429	328193	Domestic	Spear	21-Dec-11	8.00	7.40	8.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW112263	6244200	330113	Monitoring	Bore	17-Mar-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW112264	6244124	330223	Monitoring	Bore	17-Mar-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW112265	6244133	330272	Monitoring	Bore	18-Mar-03	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GW112389	6241126	329478	Domestic	Spear	08-Mar-13	9.00	8.40	9.00	Botany Bay Sand Beds	5.00	0.50	N/A
GW112396	6241174	329542	Domestic	Spear	11-Mar-13	7.00	6.40	7.00	Botany Bay Sand Beds	4.00	0.50	N/A
GW112523	6239781	328276	Domestic	Spear	13-May-13	6.00	5.40	6.00	Botany Bay Sand Beds	2.00	0.50	N/A
GW113045	6240246	329179	Domestic	Spear	01-Jan-08	8.00	N/A	N/A	Botany Bay Sand Beds	7.00	0.50	salty
GW113047	6240124	328863	Domestic	Spear	20-Feb-08	6.71	N/A	N/A	Botany Bay Sand Beds	3.05	1.00	N/A
GW113090	6240054	329315	Domestic	Spear	02-Dec-07	7.30	0.00	6.00	Botany Bay Sand Beds	4.50	1.00	good

Notes:

SWL - Standing Water Level
mbgl - metres below ground level
L/sec - litres per second
N/A - not available



LEGEND

- ◆ NSW Registered Borehole location
- Railway line

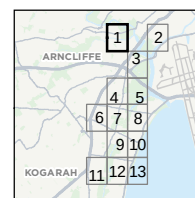


Figure D1 NSW Registered borehole locations - Map 1



LEGEND

-  NSW Registered Borehole location

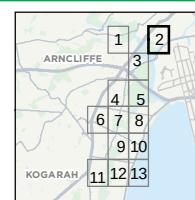


Figure D2 NSW Registered borehole locations - Map 2



LEGEND

-  NSW Registered Borehole location
-  Tunnel
-  Railway line

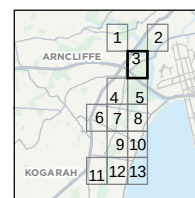


Figure D3 NSW Registered borehole locations - Map 3



LEGEND

-  NSW Registered Borehole location
-  Tunnel
-  Railway line

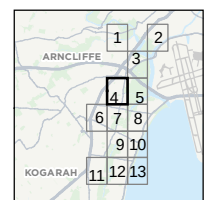


Figure D4 NSW Registered borehole locations - Map 4



LEGEND

-  NSW Registered Borehole location

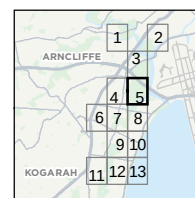


Figure D5 NSW Registered borehole locations - Map 5



LEGEND

- NSW Registered Borehole location
- Tunnel
- Railway station
- Railway line

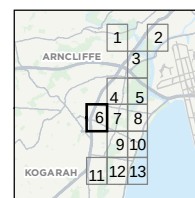


Figure D6 NSW Registered borehole locations - Map 6



LEGEND

- NSW Registered Borehole location
- Tunnel

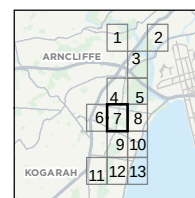


Figure D7 NSW Registered borehole locations - Map 7



LEGEND

◆ NSW Registered Borehole location

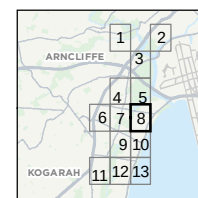


Figure D8 NSW Registered borehole locations - Map 8



LEGEND

-  NSW Registered Borehole location
-  Tunnel
-  Surface road

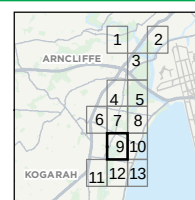
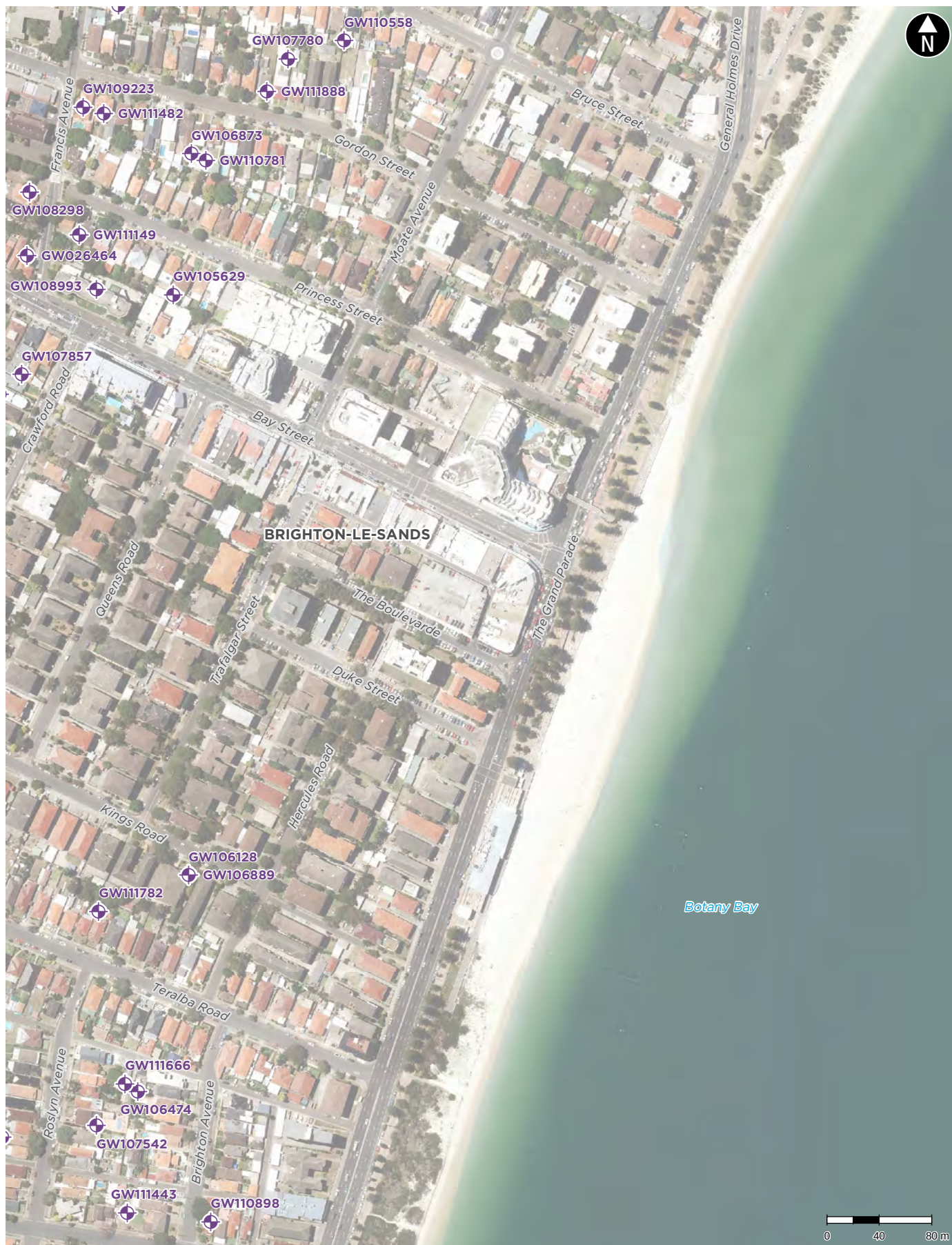


Figure D9 NSW Registered borehole locations - Map 9



LEGEND

-  NSW Registered Borehole location

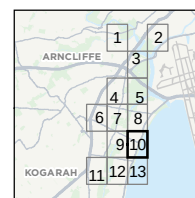


Figure D10 NSW Registered borehole locations - Map 10



LEGEND

- ◆ NSW Registered Borehole location
- Surface road

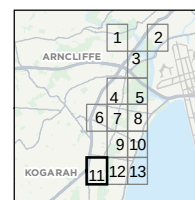
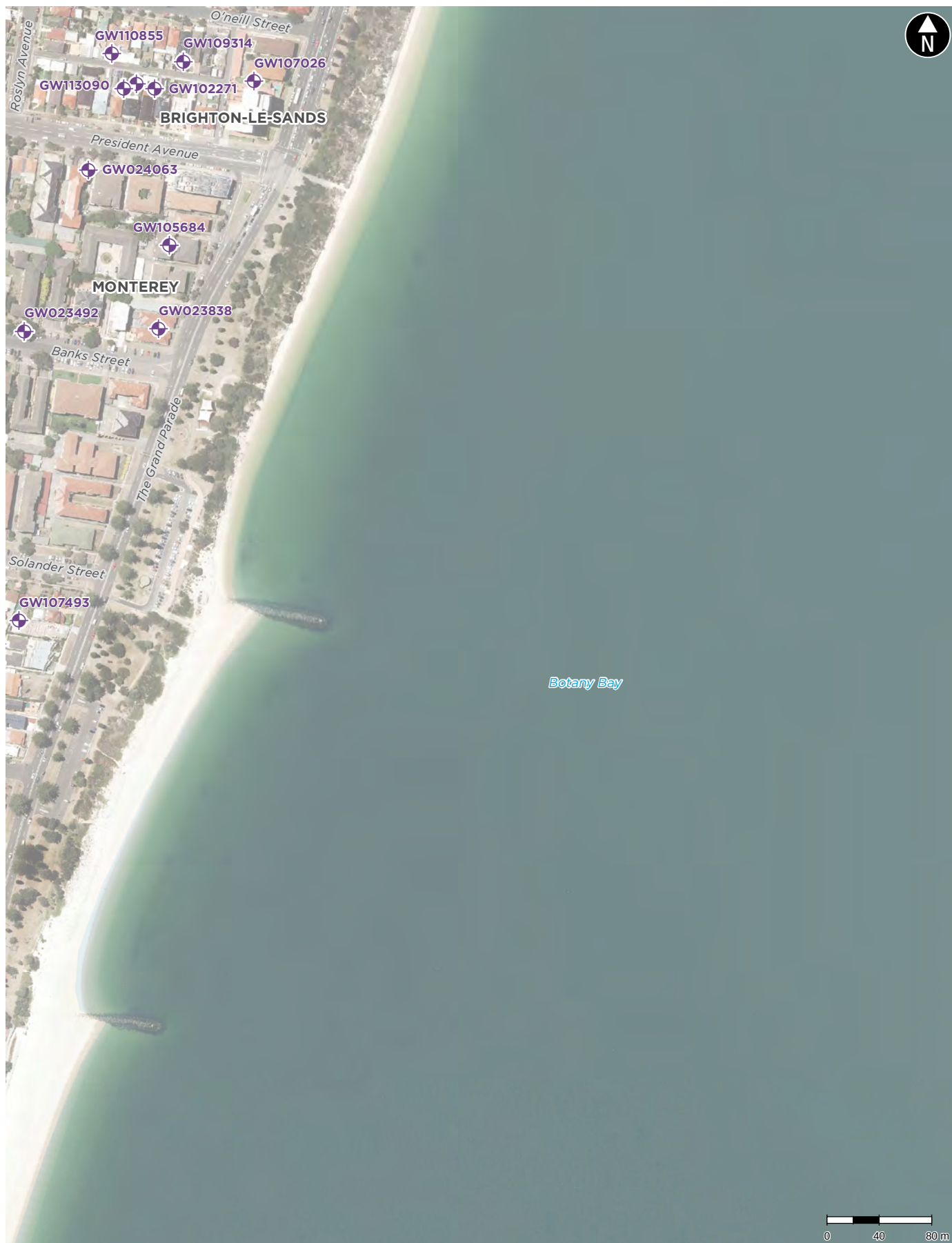


Figure D11 NSW Registered borehole locations - Map 11



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Figure D12 NSW Registered borehole locations - Map 12



LEGEND

-  NSW Registered Borehole location

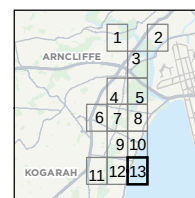
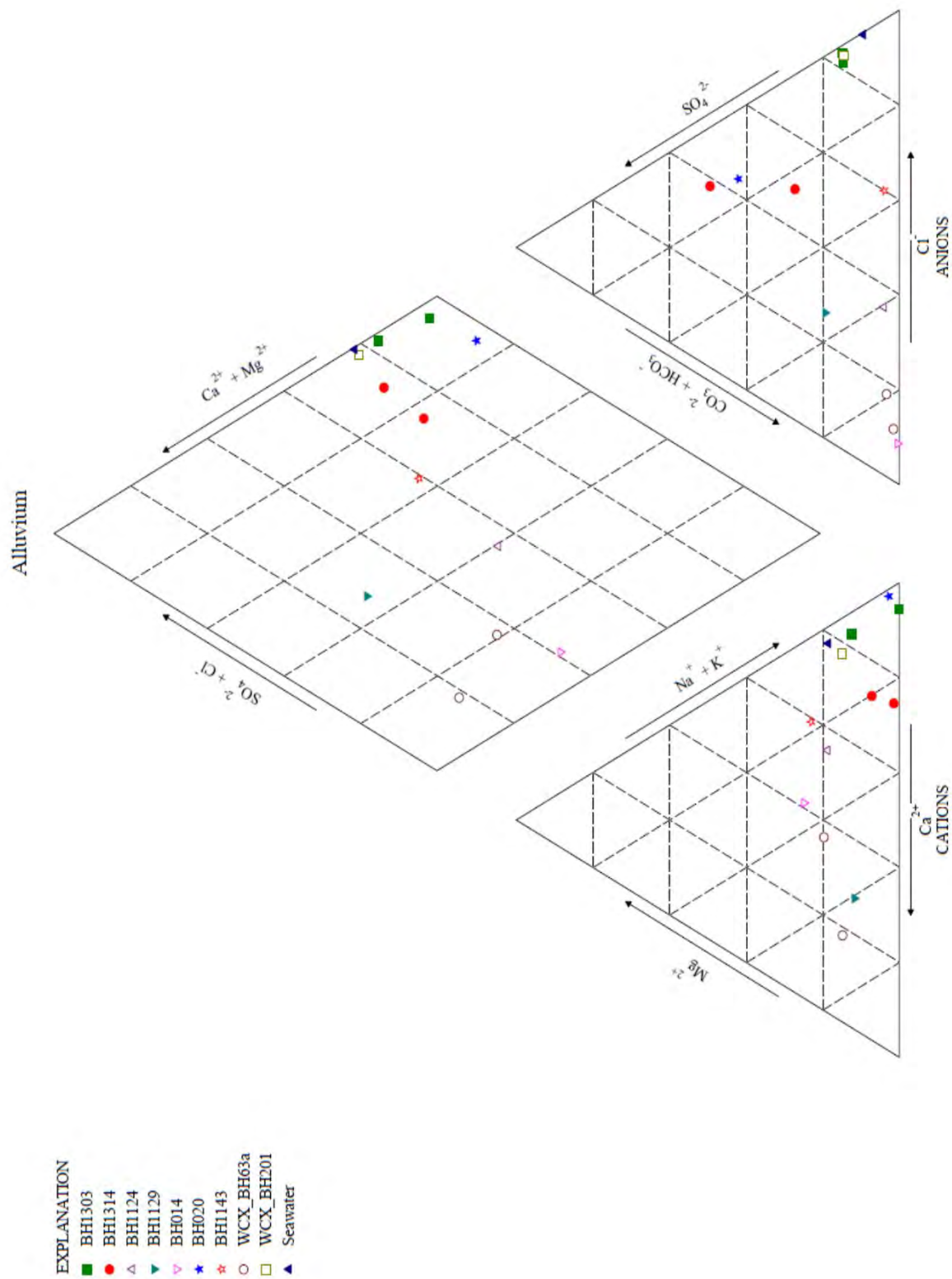


Figure D13 NSW Registered borehole locations - Map 13

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Annexure E – Piper Diagrams



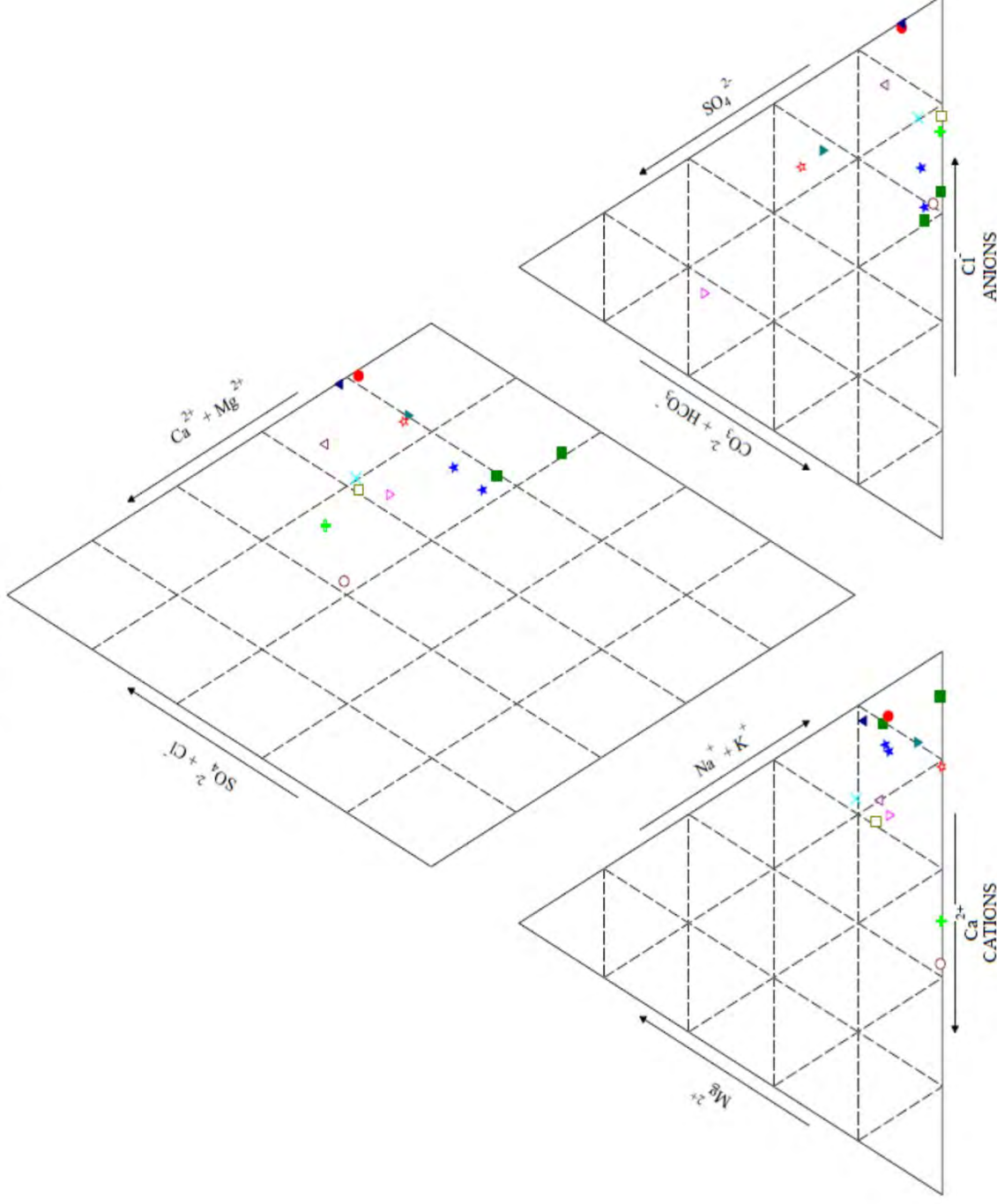
EXPLANATION

- BH1303
 ● BH1314
 ▲ BH1124
 ▼ BH1129
 ◆ BH014
 ★ BH020
 ☆ BH1143
 ○ WCX_BH63a
 □ WCX_BH201
 ▲ Seawater

Hawkesbury Sandstone

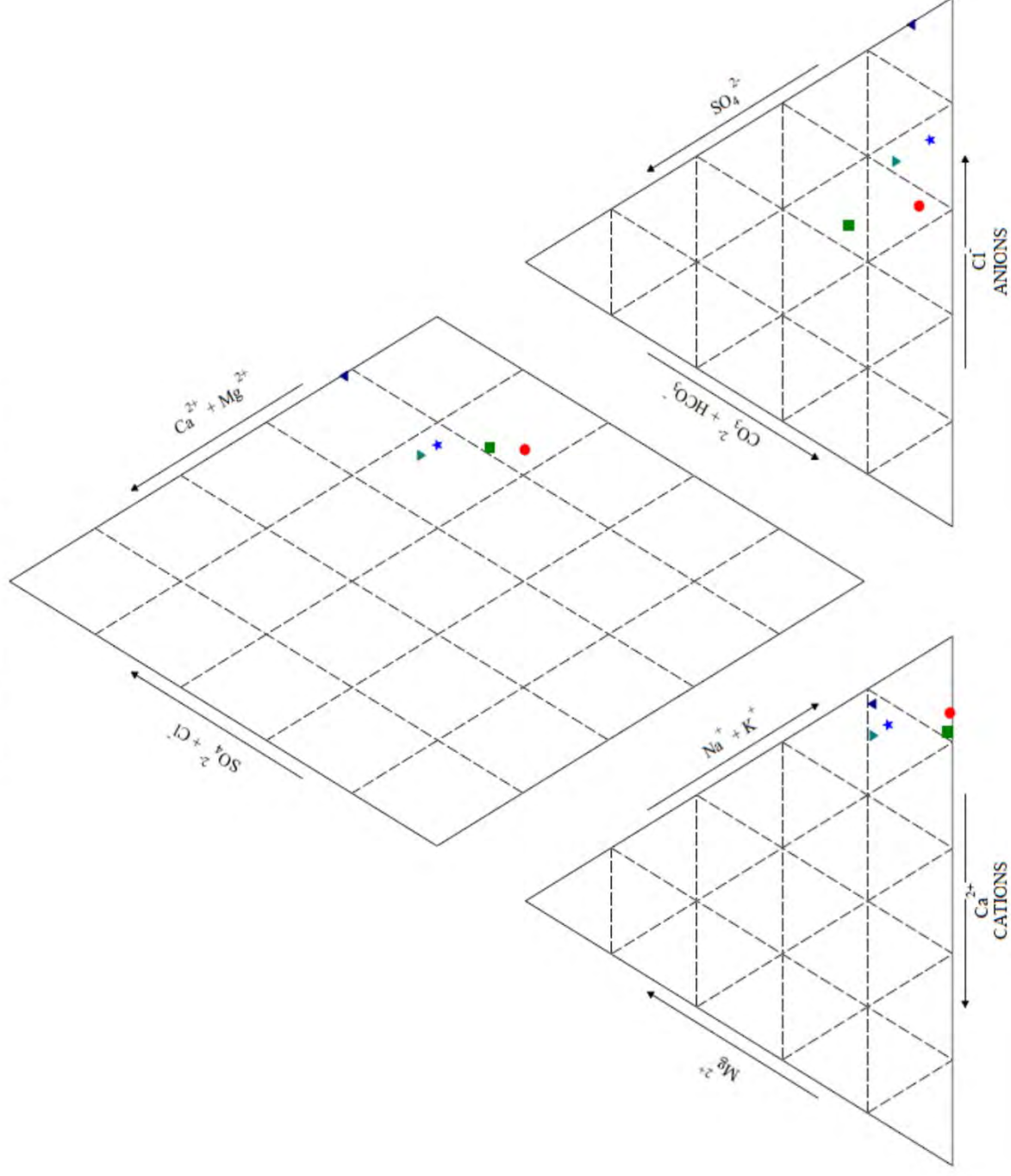
EXPLANATION

- BH1300
- BH1129a
- △ BH1130
- ▽ BH1131
- ◇ BH1100
- ★ WCX_BH063
- ◆ WCX_BH202
- WCX_BH204
- × WCX_BH206
- WCX_BH208
- ☆ WCX_BH214
- ▲ Seawater



- EXPLANATION
- BH1315 (Nov 2017)
 - BH1315 (Dec 2017)
 - BH1316 (Nov 2017)
 - BH1316 (Dec 2017)
 - ▲ Seawater

Alluvium and Hawkesbury Sandstone



Title: Piper Diagram
Project: F6 Extension
Client: Roads and Maritime Services

Location: Rockdale
Aquifer: Alluvium and Hawkesbury Sandstone

Figure: F3
Project No: 60557212