

Minutes of Rocglen Coal Mine Community Consultative Committee – Meeting #26

Meeting Held: Wednesday 11th March 2015

Venue: The meeting was held at the Rocglen Coal Mine Training Room

Commencement Time: 3:00pm

1. Present and Apologies

Present: Mr John Sturgess (JS) (Independent Chairperson)
Mrs Jill Johnson (JJ) (Group Environment Manager)
Mr Jason Conomos (JC) (Operations Manager)
Mrs Pam Burns (PB) (Community Representative)
Mr Tim Muldoon (TM) (Group Manager Community Relations & Property)

Apologies: Mr Rod Barnes (RB) (Community Representative)
Mr Hans Allgayer (HA) (Gunnedah Shire Council Representative)

2. Previous Minutes

Minutes accepted as a true record on the motion of PB and JC.

3. Business Arising from Previous Minutes

3.1. N/A

4. Mine Progress Report

JC advised that in the last three months 1.4 Mbcm of overburden had been moved for a total of 220,000 tonnes of coal, at a strip ratio of 6.3:1.

5. Review of Environmental Performance

JJ presented the environmental monitoring results which are attached in the environmental monitoring report.

6. General Business

JJ noted the letters that had been issued to each Rocglen CCC member in relation to joint membership required by the Vickery approval.

JJ proposed that CCC meetings be changed to 6 monthly, rather than quarterly, given the limited issues discussed at each meeting. She noted that extraordinary meetings could be called outside of the 6 monthly meeting regime if required. All in attendance agreed and suggested March and September as suitable months.

JJ advised that a newsletter would be issued to surrounding landholders, CCC members (additional copies for distribution), GSC and the Business Chamber.

7. Next Meeting

The next meeting of the Rocglen CCC is scheduled for Wednesday 9th September 2015 at 3:00pm.

Meeting closed 3:20pm.

J Sturgess
Chairman

Rocglen Coal Mine Community Consultative Committee Meeting #26

Environmental Monitoring Report November 2014 – January 2015

Noise Monitoring

Attended noise monitoring was undertaken on the 15th, 16th and 17th December 2014, in accordance with the Rocglen Noise Monitoring Program and Environment Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days) with results outlined below:

Surrey

RCM Operational Noise Monitoring Results – 15 th , 16 th and 17 th December 2014				
Date	Time	dB(A),Leq (15 min)	Wind speed/direction	Identified Noise Sources as dB(A) Leq (15 min)
15 th Dec 2014	4:26 pm	39	4.2 / SSE	Wind in trees (37), birds (35), RCM inaudible
15 th Dec 2014	9:28 pm	28	2.2 / E	Wind in trees (26), insects (23), RCM inaudible
15 th Dec 2014	11:39 pm	34	3.7 / E	Wind in trees (33), insects (28), RCM inaudible
16 th Dec 2014	11:14 am	40	4.3 / WNW	Birds (39), wind in trees (30), RCM (23)
16 th Dec 2014	9:15 pm	32	1.3 / E	RCM (28) , insects (25), traffic (24), wind (24)
16 th Dec 2014	11:33 pm	30	Calm	Insects (30), RCM faintly audible
17 th Dec 2014	1:17 pm	40	3.4 / E	Wind in trees (38), birds (36), RCM inaudible
17 th Dec 2014	9:27 pm	27	1.8 / E	Insects (29), sheep (26), RCM faintly audible
17 th Dec 2014	11:33 pm	27	0.5 / WNW	Insects (27), RCM faintly audible

Retreat

RCM Operational Noise Monitoring Results – 15 th , 16 th and 17 th December 2014				
Date	Time	dB(A),Leq (15 min)	Wind speed/direction	Identified Noise Sources as dB(A) Leq (15 min)
15 th Dec 2014	2:35 pm	34	4.0 / S	Wind in trees (31), birds (29), domestic (25), RCM inaudible
15 th Dec 2014	8:44 pm	35	4.0 / E	Wind in trees (33), dogs (29), frogs & insects (26), RCM inaudible
15 th Dec 2014	10:17 pm	32	1.2 / E	Frogs & insects (31), dogs (24), traffic (23), RCM inaudible
16 th Dec 2014	9:26 am	35	0.5 / S	Birds (34), RCM (26)
16 th Dec 2014	8:33 pm	32	2.9 / E	Birds (29), wind (27), RCM (23)
16 th Dec 2014	10:01 pm	29	1.3 / NE	Wind in trees (27), insects (25), RCM inaudible
17 th Dec 2014	11:31 pm	46	5.9 / WNW	Wind in trees (46), birds (28), RCM inaudible
17 th Dec 2014	8:39 pm	33	0.2 / ESE	Birds (30), dogs (30), RCM faintly audible
17 th Dec 2014	10:14 pm	31	1.1 / NW	RCM (27) , insects (26), wind (24)

The results show that, under the operating and meteorological conditions at the time of monitoring, the mine noise did not exceed the operational noise criterion at either monitoring location or at any time.

Where the noise from RCM was audible at the Surrey and Retreat locations the most significant contributor was general mine hum.

In addition to operational noise, the noise from the mine must not exceed 45 dB(A) L1 (1 min) between the hours of 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. During the night time monitoring the L1 (1 min) noise from the mine did not exceed 45 dB(A) at both monitoring locations, as shown below:

RCM Sleep Disturbance Monitoring Results				
Date	Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
15 th Dec 2014	Surrey	11:39 pm	n/a	3.7 / E
16 th Dec 2014	Surrey	11:33 pm	22	Calm
17 th Dec 2014	Surrey	11:33 pm	22	0.5 / WNW
15 th Dec 2014	Retreat	10:17 pm	n/a	1.2 / E
16 th Dec 2014	Retreat	10:01 pm	n/a	1.3 / NE
17 th Dec 2014	Retreat	10:14 pm	31	1.1 / NW

Rocglen’s real time noise monitor is currently located at the “Penryn” property. The monitor’s alarm system notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly. Currently, in-pit dumping is prioritised during night operations to reduce the likelihood of operational noise impacts.

Blast Monitoring

Since the first blast there have been 214 blasts (until the end of January). All blasts during the monitoring period were compliant within the limits of 120dB and 10mm/s.

Air Quality

Deposited Dust Results

The deposited dust results (g/m²/month) obtained for the site over the last 12 months are as follows:

Air Quality (Dust Deposition) Results

Month	BD2-A – Penryn	BD3 – Belah	BD4 – Surrey	BD5 – Stratford	BD6 – Roseberry	BD7 – Roseglass	BD8 – Yarrowonga
February 2014	0.7		3.3	0.1	2.0	0.1	0.7
March 2014	1.4	<0.1	4.1	0.8	2.6	<1	0.8
April 2014	0.7	0.7	0.4	1.1	4.9	<1	0.6
May 2014	4.4	0.1	1.7	1.7	0.4	0.7	0.6
June 2014	0.5	0.8	0.9	1.9	0.7	0.3	0.6
July 2014	2.7	<0.1	0.7	1	0.2	<0.1	0.2
August 2014	4.3	0.3	4.0	1.0	0.1	0.3	1.1
September 2014	0.3	0.2	0.5	1.1	0.4	0.4	0.9
October 2014	2.2	0.9	0.9	1.2	3.5	1.5	1.3
November 2014	1.2	0.8	1.0	0.9	1.5	0.5	1.9
December 2014	2.7	3.7	1.6	2.3	1.3	2.5	115.6
January 2015	13.4	0.3	<0.1	0.8	1.0	1.5	0.8
Annual Average	2.88	0.87	1.74	1.16	1.55	0.87	0.86

Results show an anomalous result of 115.6g/m² at Yarrawonga in December 2014, which is not in line with monitoring results at the property in other monitoring periods or with monitoring results in December 2014 at all other monitoring locations. The result has been excluded from the annual average on the basis of sample contamination. The annual average at all sites remains below the concentration threshold of 4g/m²/month.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of January 2015 remain below the annual average limit of 30µg/m³, as follows:

Costa Vale: 14.34µg/m³

Roseberry: 11.15µg/m³

The real time PM₁₀ monitor at “Roseberry” is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

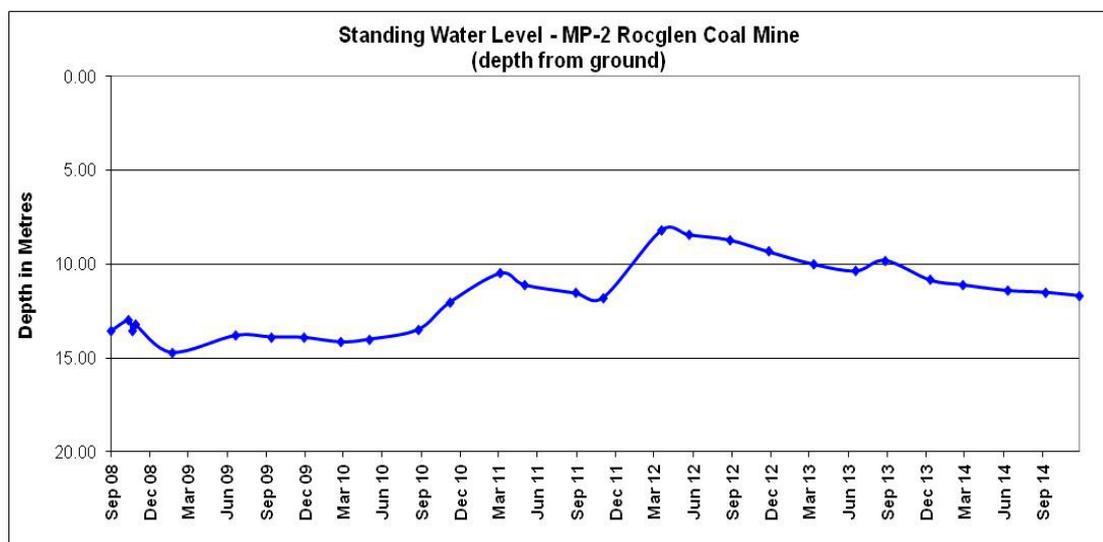
Groundwater monitoring data for the last 12 months is presented in the following table. Standing Water Level (SWL) graphs of bores with sufficient data sets are also provided.

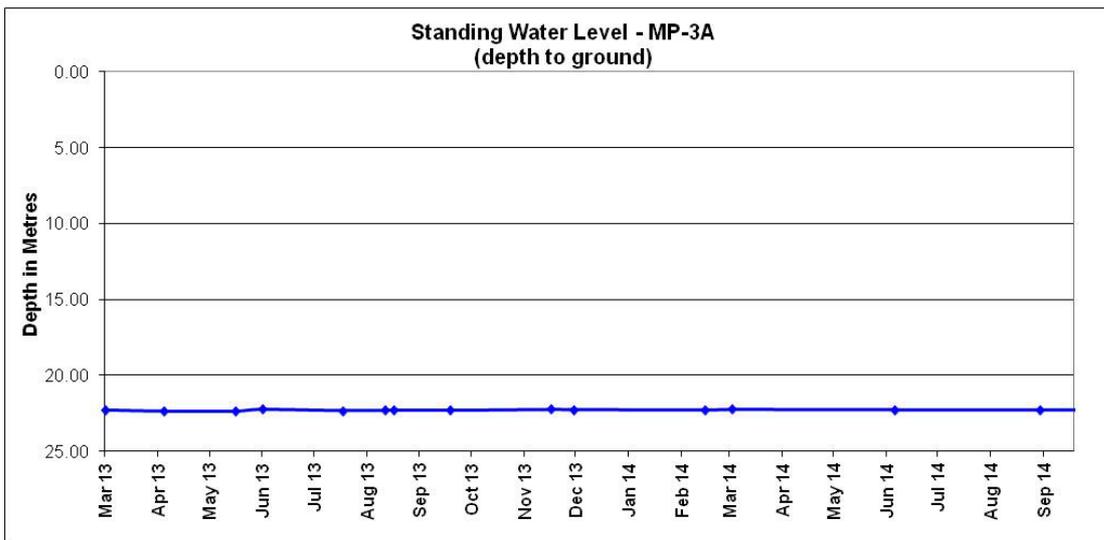
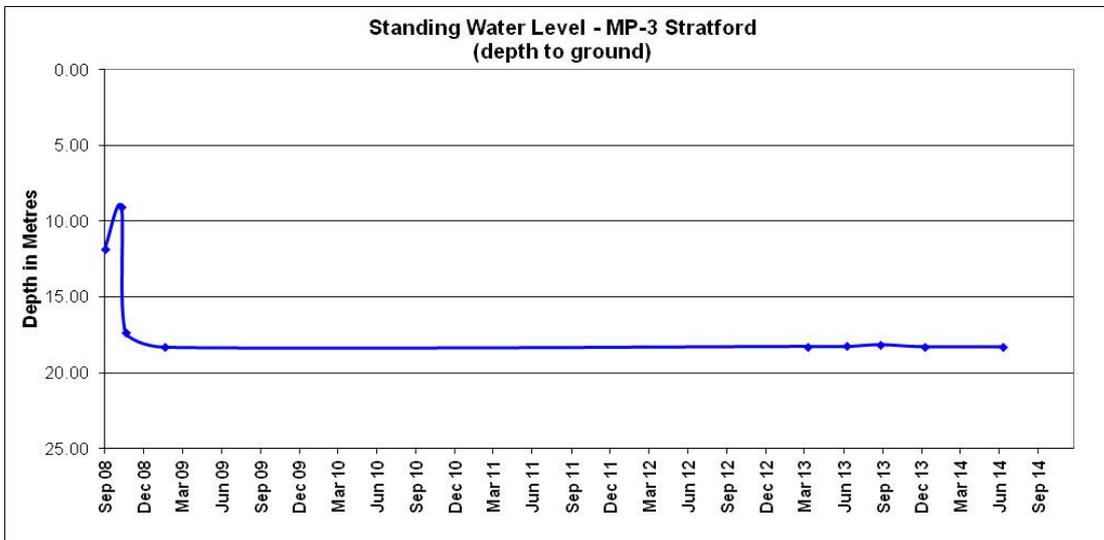
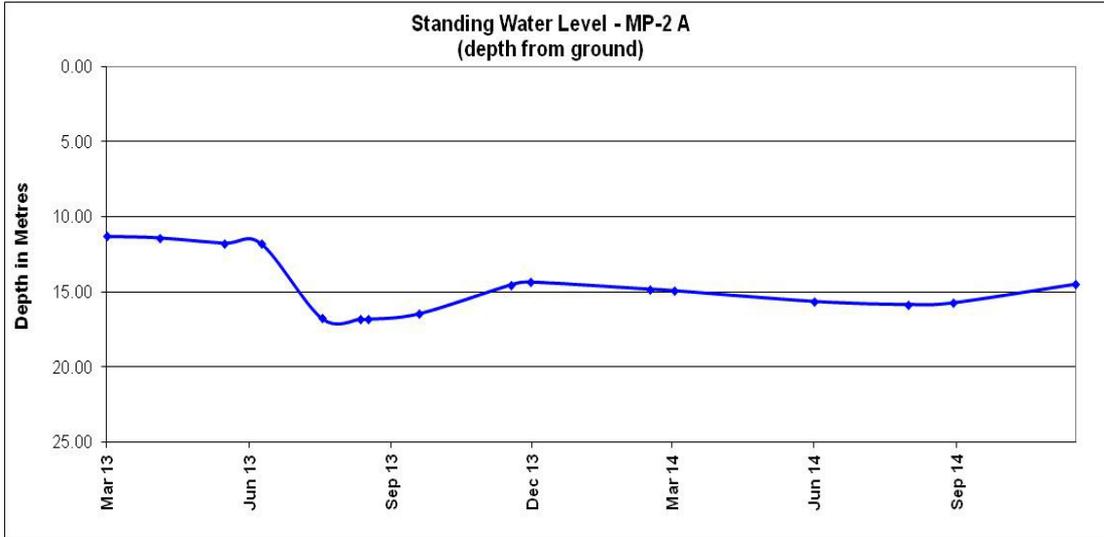
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP2	26 Feb 14	11.1	8.1	5250
	12 Jun 14	11.4	7.2	4930
	10 Sep 14	11.5	7.2	4930
	28 Nov 14	11.7	7.4	4910
MP2a	11 Dec 13	14.3	6.7	3140
	26 Feb 14	14.8	7.7	3250
	12 Jun 14	15.6	7.0	3180
	10 Sep 14	15.7	7.0	3210
	28 Nov 14	14.5	7.3	3220
MP3	11 Dec 13	18.3	Insufficient water to sample	
	24 Feb 14	Dry	Insufficient water to sample	
	12 Jun 14	18.3	Insufficient water to sample	
	10 Sep 14	18.3	Insufficient water to sample	
	27 Nov 14	Dry	Insufficient water to sample	
MP3a	11 Dec 13	22.3	7.9	1305
	26 Feb 14	22.3	8.4	1340
	17 Jun 14	22.3	7.8	1284
	10 Sep 14	22.3	7.8	1290
	27 Nov 14	22.3	7.9	1295
MP4	11 Dec 13	Dry		
	26 Feb 14	Dry		
	12 Jun 14	Dry		
	10 Sep 14	Dry		
	27 Nov 14	Dry		

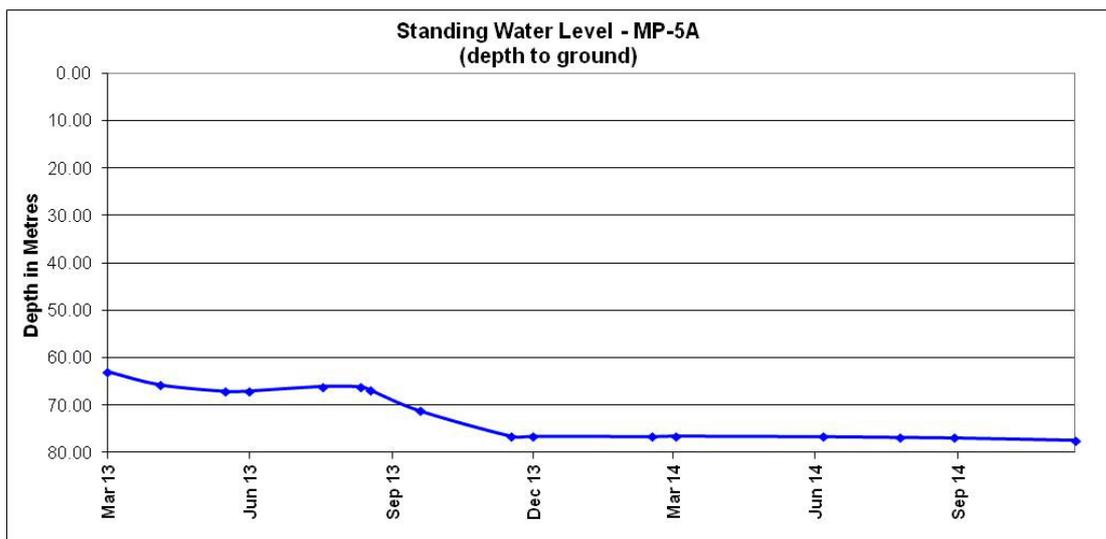
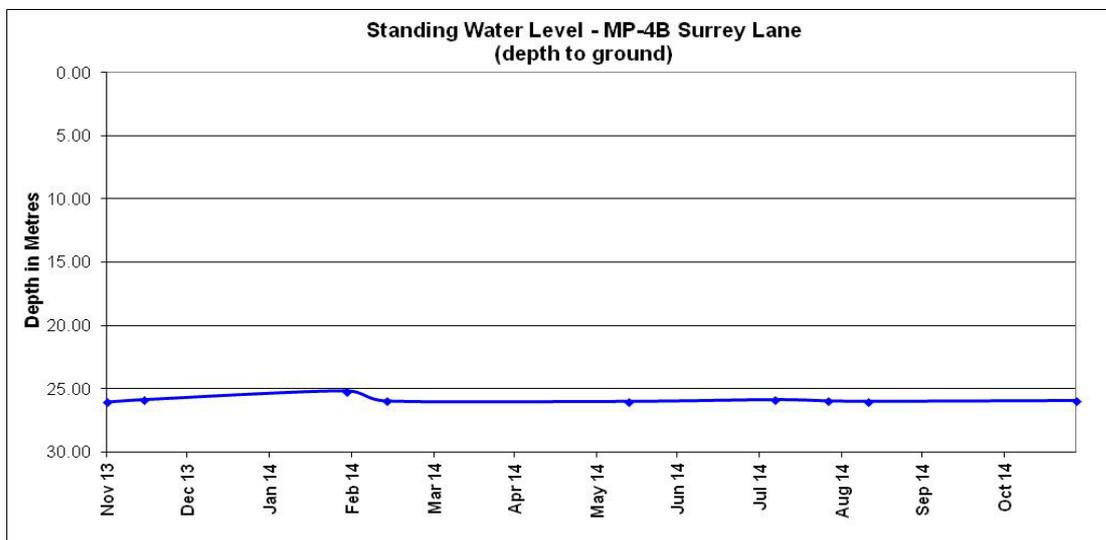
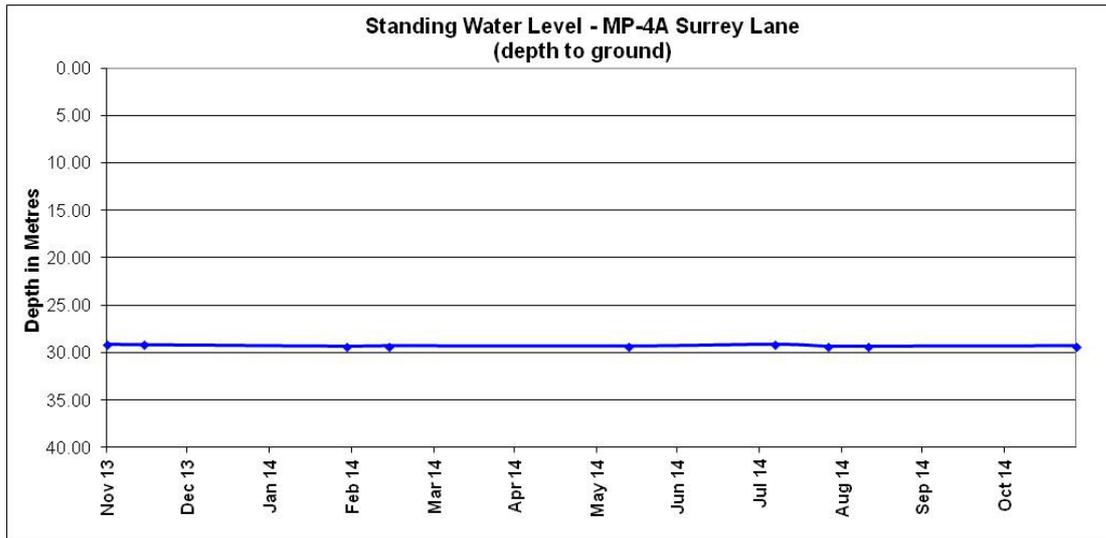
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP4a	12 Dec 13	29.2	6.8	3210
	26 Feb 14	29.4	8.0	3820
	12 Jun 14	29.3	7.1	3690
	06 Aug 14	29.1		
	26 Aug 14	29.4		
	10 Sep 14	29.4	7.2	3720
	27 Nov 14	29.3	7.2	3700
MP4b	12 Dec 13	25.9	7.3	2960
	26 Feb 14	25.2	8.2	3050
	12 Jun 14	26.0	7.3	2960
	06 Aug 14	25.9		
	26 Aug 14	26.0		
	10 Sep 14	26.0	7.4	2950
	27 Nov 14	26.0	7.4	2960
MP5	12 Dec 13	Dry	Insufficient water to sample	
	27 Feb 14	Dry	Insufficient water to sample	
	12 Jun 14	Dry	Insufficient water to sample	
	10 Sep 14	Dry		
	27 Nov 14	Dry		
MP5a	12 Dec 13	76.6	7.0	2770
	27 Feb 14	76.6	7.3	3070
	17 Jun 14	76.6	7.0	3010
	06 Aug 14	76.8		
	10 Sep 14	76.9	6.9	2990
	27 Nov 14	77.4	7.0	2890
MP6	11 Dec 13	8.2	7.2	2780
	24 Feb 14	8.3	7.4	2580
	12 Jun 14	8.3	7.3	2360
	10 Sep 14	8.3	7.4	2260
	27 Nov 14	8.4	7.5	2160
MP7	18 Dec 13	15.8	6.9	2970
	27 Feb 14	15.9	7.3	3200
	19 Jun 14	15.8	7.0	3050
	10 Sep 14	15.8	7.0	3040
	27 Nov 14	15.8	7.1	3060
MP8	18 Dec 13	15.9	6.4	3620
	27 Feb 14	16.1	6.7	3920
	19 Jun 14	16.0	6.9	4010
	12 Aug 14	16.1		
	10 Sep 14	7.8	6.7	4170
	27 Nov 14	16.0	7.0	4130
WB1	11 Dec 13	8.0	No sample available	
	24 Feb 14	8.1	No sample available	
	12 Jun 14	8.2	Windmill over bore	
	10 Sep 14	8.2	Windmill over bore	
	27 Nov 14	8.2	Windmill over bore	
WB2	11 Dec 13	15.7	No access	

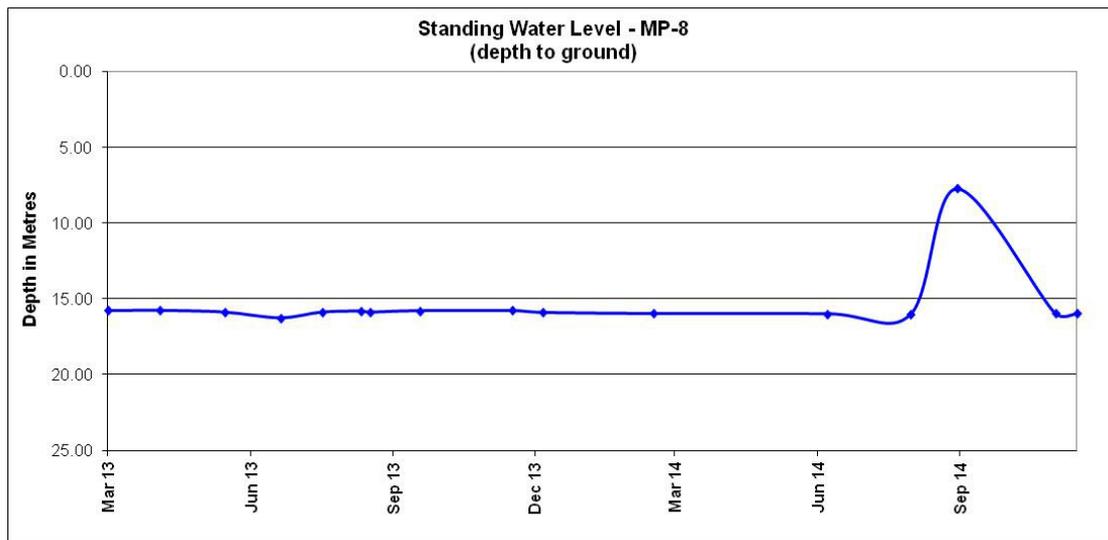
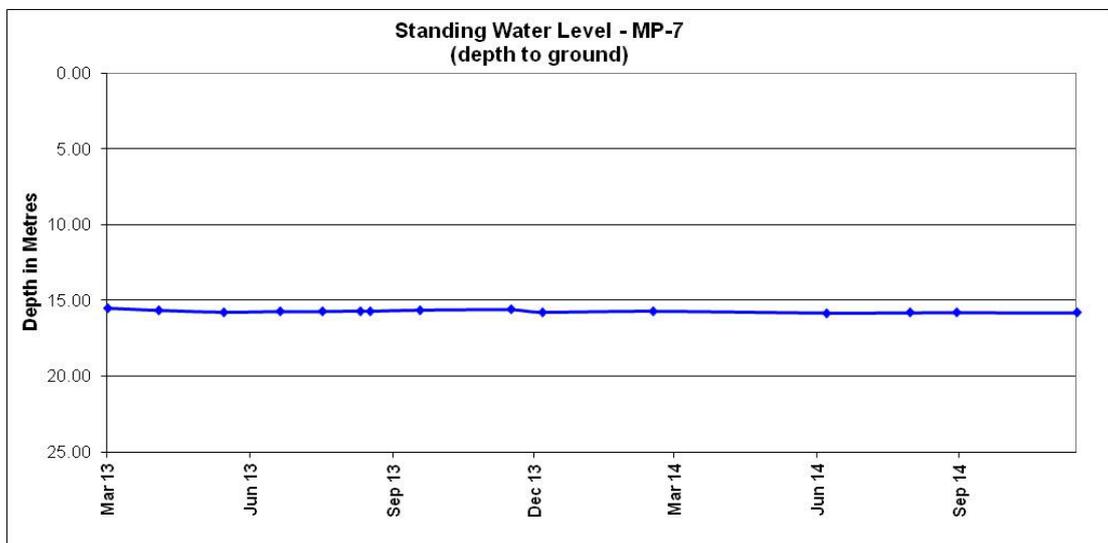
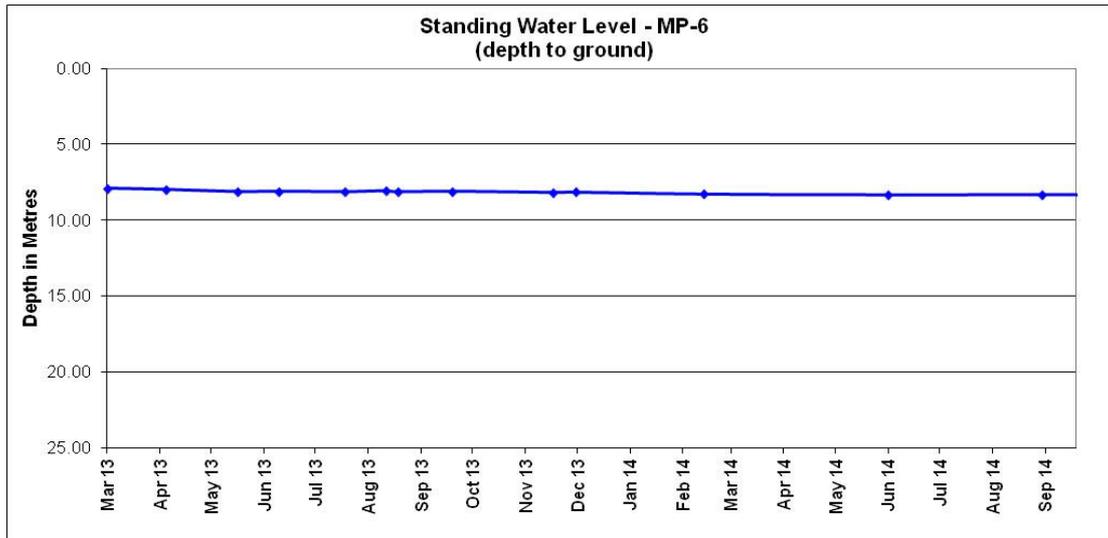
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	26 Feb 14	16.2	8.15	3070
	12 Jun 14	15.8	8.7	2700
	10 Sep 14	18.8	7.8	2090
	28 Nov 14	19.8	8.2	2120
WB3	18 Dec 13	7.6	Pump over bore	
	27 Feb 14	7.8	Pump over bore	
	12 Jun 14	8.1	Pump over bore	
	11 Nov 14	8.1	Pump over bore	
	28 Nov 14	7.7	Pump over bore	
WB4	12 Dec 13	Unable to dip	No sample	
	27 Feb 14	Unable to dip	No sample	
	12 Jun 14	Unable to dip	No sample	
	11 Nov 14	Unable to dip	No sample	
	27 Nov 14	Unable to dip	No sample	
WB5	11 Dec 13	12.3	7.8	7130
	26 Feb 14	19.0	7.9	7840
	12 Jun 14	12.6	7.9	7740
	10 Sep 14	14.5	7.6	5340
	28 Nov 14	19.9	7.9	5350
WB6	11 Dec 13	26.7	Bore equipped	
	24 Feb 14	20.9	Bore equipped	
	12 Jun 14	21.1	Bore equipped	
	10 Sep 14	21.2	Bore equipped	
	28 Nov 14	21.4	Bore equipped	
WB7	11 Dec 13	10.4	No access	
	24 Feb 14	10.7	No access	
	12 Jun 14	10.8	Windmill over bore	
	10 Sep 14	11.0	Windmill over bore	
	28 Nov 14	11.2	Windmill over bore	
WB8	12 Dec 13	31.1	Unable to Sample – pump over bore	
	27 Feb 14	31.3	Unable to Sample – pump over bore	
	12 Jun 14	29.8	Pump over bore	
	11 Sep 14	30.7	Pump over bore	
	27 Nov 14	30.7	Pump over bore	
WB9	12 Dec 13	23.8	No access	
	26 Feb 14	24.7	8.12	1240
	12 Jun 14	24.3	7.7	1250
	11 Sep 14	24.2	7.5	1180
	27 Nov 14	24.3	8.1	1070
WB10	12 Dec 13	14.3	7.0	1925
	26 Feb 14	14.3	7.6	2110
	19 Jun 14	14.1	7.1	2010
	11 Sep 14	13.9	7.0	1960
	28 Nov 14	14.2	7.1	7050
WB11	12 Dec 13	16.7	7.8	1310
	26 Feb 14	18.2	8.37	1690

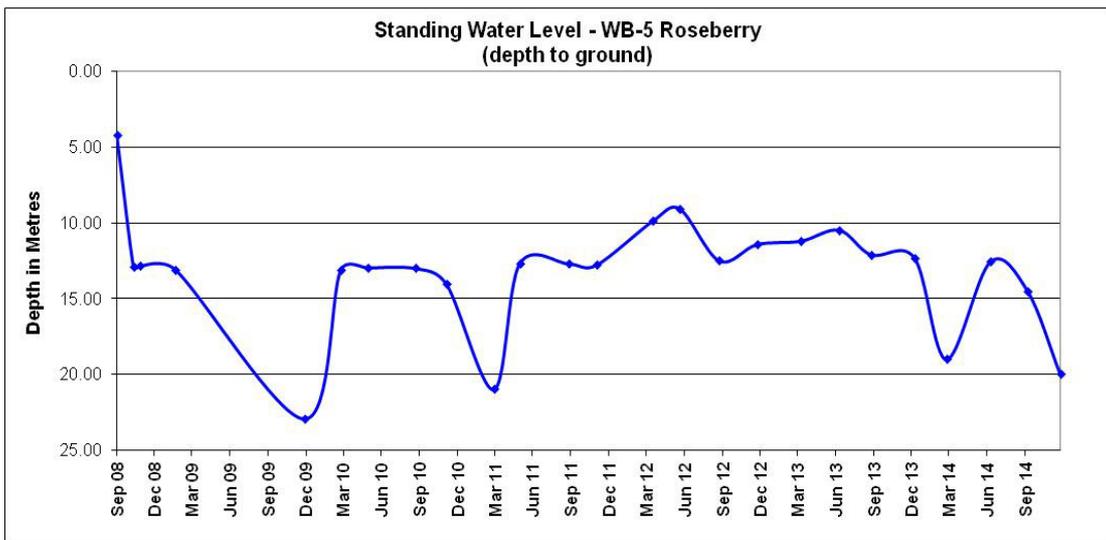
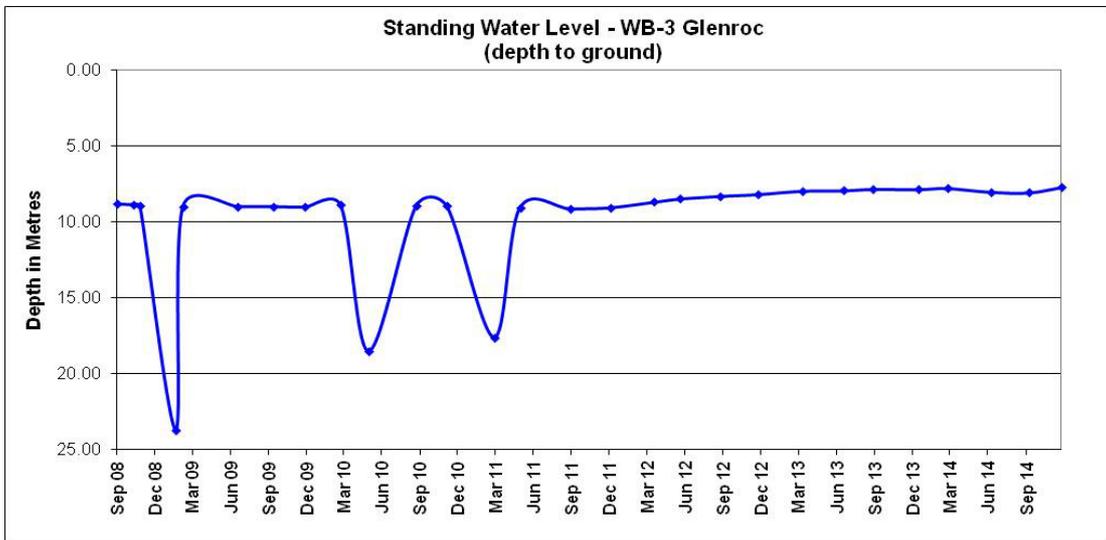
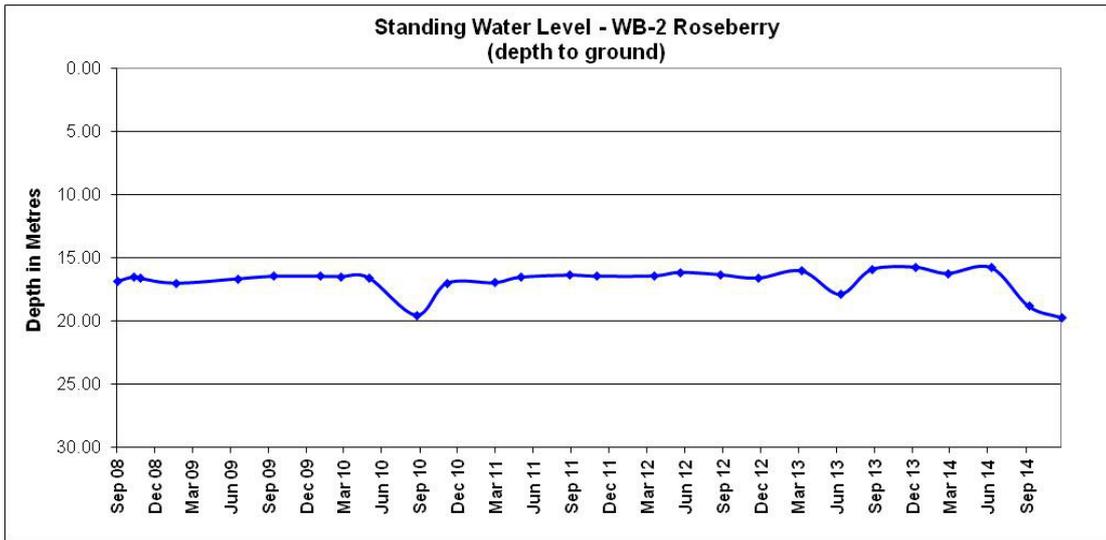
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	19 Jun 14	16.9	7.7	1420
	11 Sep 14	16.7	7.8	1210
	28 Nov 14	17.4	8.1	1310
WB12	12 Dec 13	13.0	7.9	1730
	26 Feb 14	13.1	8.4	1930
	19 Jun 14	13.1	8.0	1694
	11 Sep 14	13.1	7.9	1800
	28 Nov 14	13.1	8.3	1475
WB13	12 Dec 13	41.8	7.0	3460
	26 Feb 14	42.4	7.9	3690
	12 Jun 14	33.9	7.1	3540
	11 Sep 14	40.9	7.0	3380
	27 Nov 14	42.6	7.1	3510
WB-14	18 Dec 13	10.2	7.6	1315
	27 Feb 14	22.9	7.8	1150
	12 Jun 14	18.8	7.7	1260
	11 Sep 14	18.6	7.7	1280
	27 Nov 14	13.7	7.7	1290
WB-15	11 Jul 14	27.6		
	26 Aug 14	30.1		
	11 Sep 14	30.3	6.9	1390
	27 Nov 14	27.1	7.0	1400
Production Bore	11 Dec 13	Bore Equipped	7.0	3630
	24 Feb 14	Bore Equipped	6.9	3490
	12 Jun 14	Bore Equipped	7.0	3590
	10 Sep 14	Bore Equipped	6.9	3620
	28 Nov 14	Bore Equipped	7.0	3550
Surrey No.2	12 Dec 13	34.6	7.3	3420
	27 Feb 14	33.6	7.3	3060
	12 Jun 14	32.7	7.3	3310
	11 Sep 14	34.3	7.2	3620
	27 Nov 14	34.3	7.4	3170

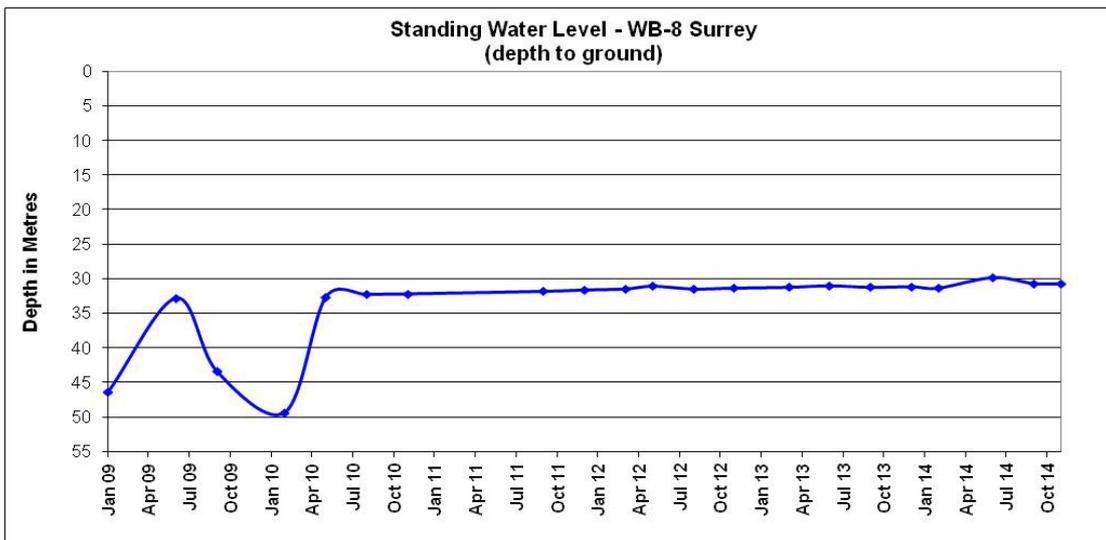
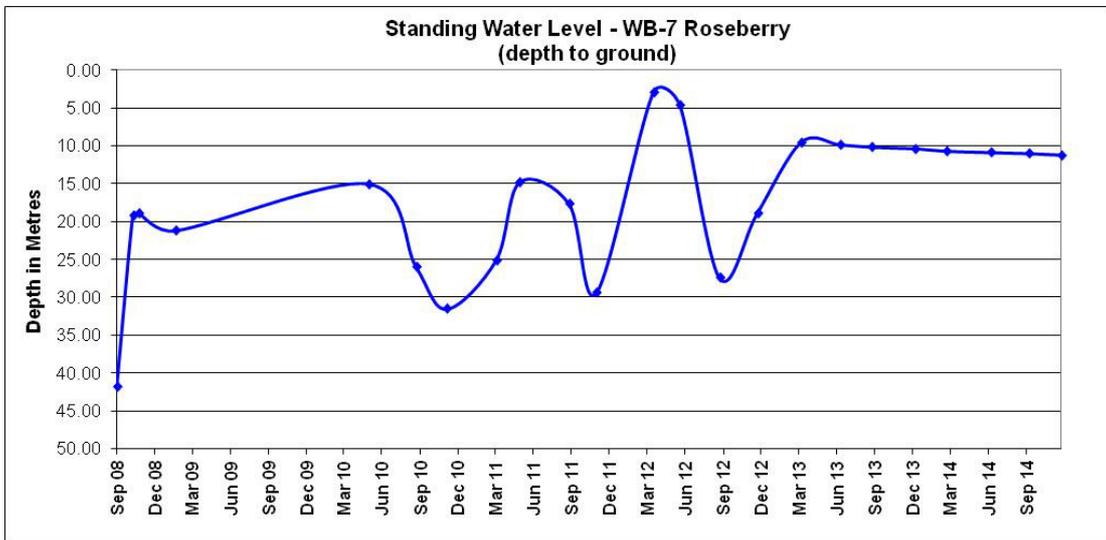
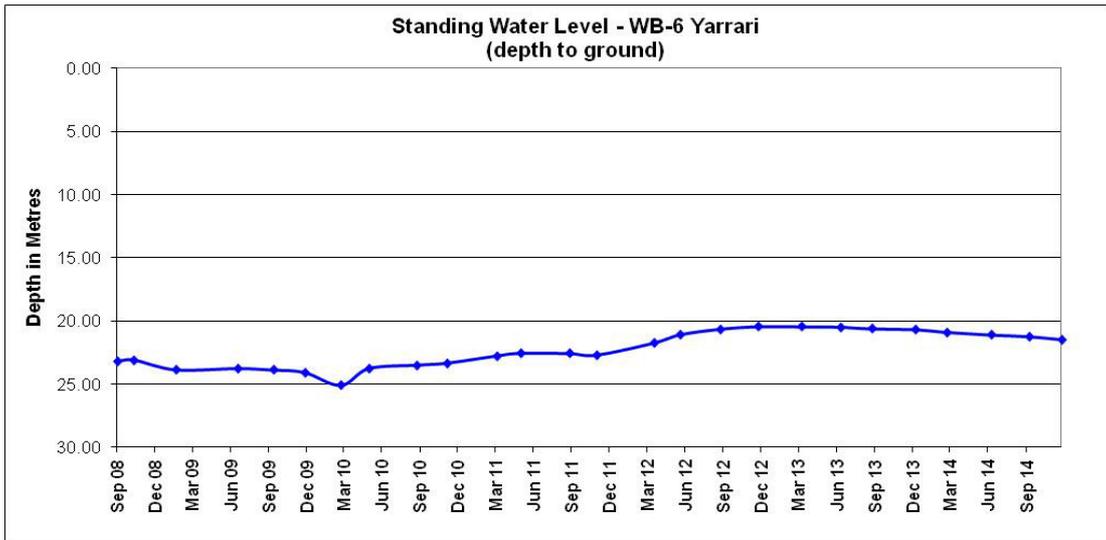


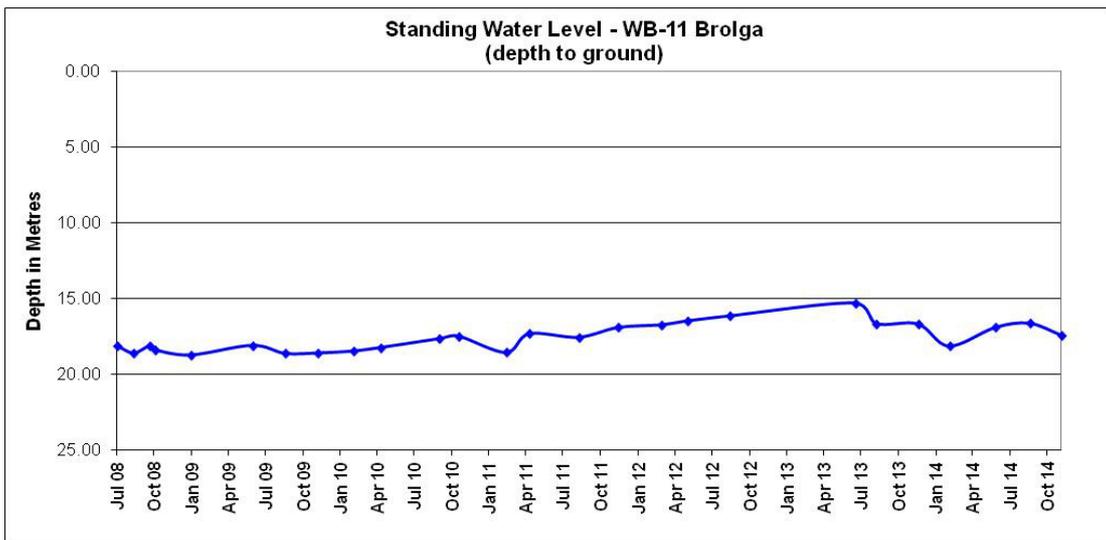
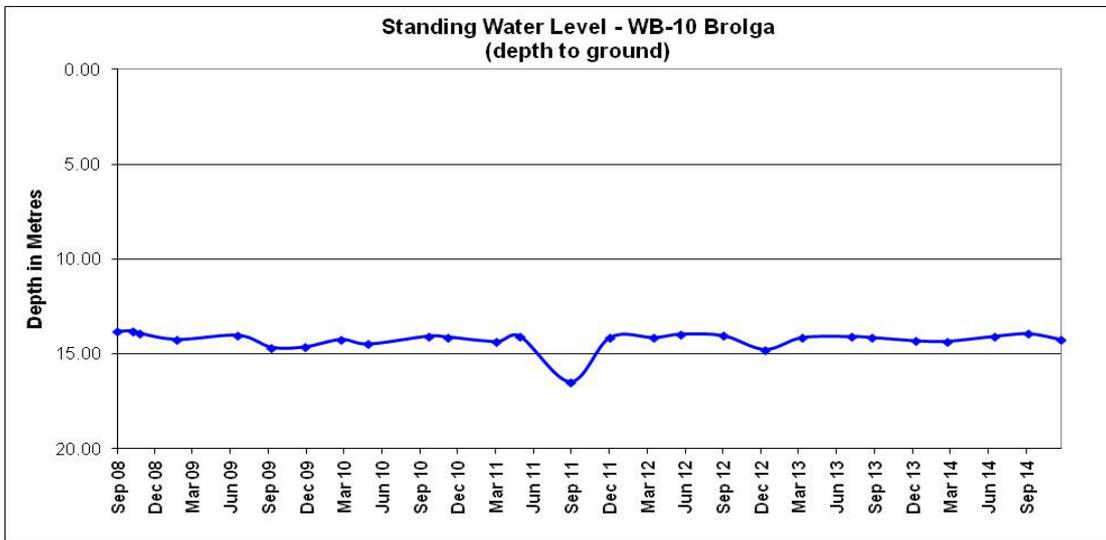
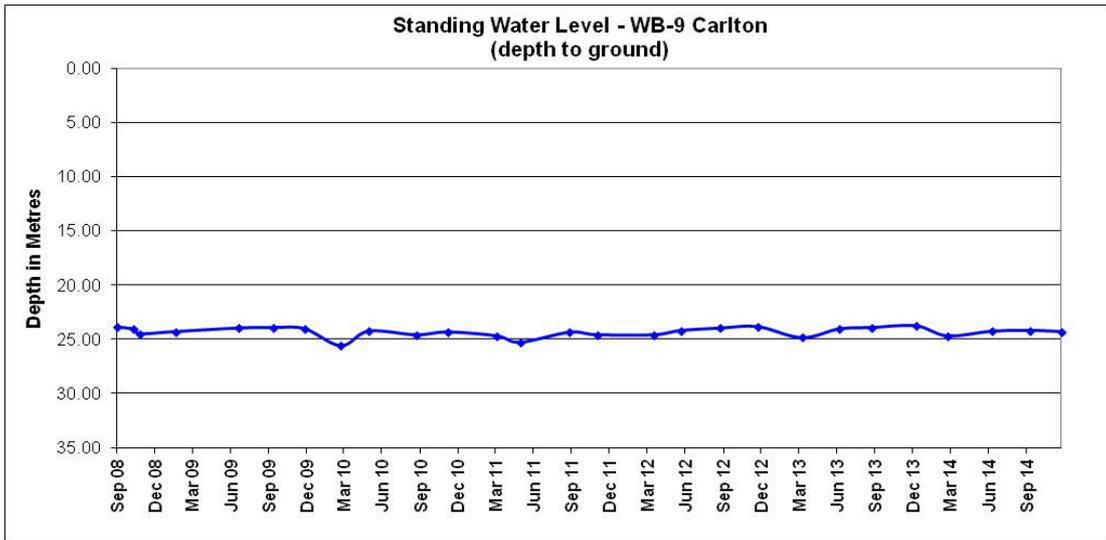


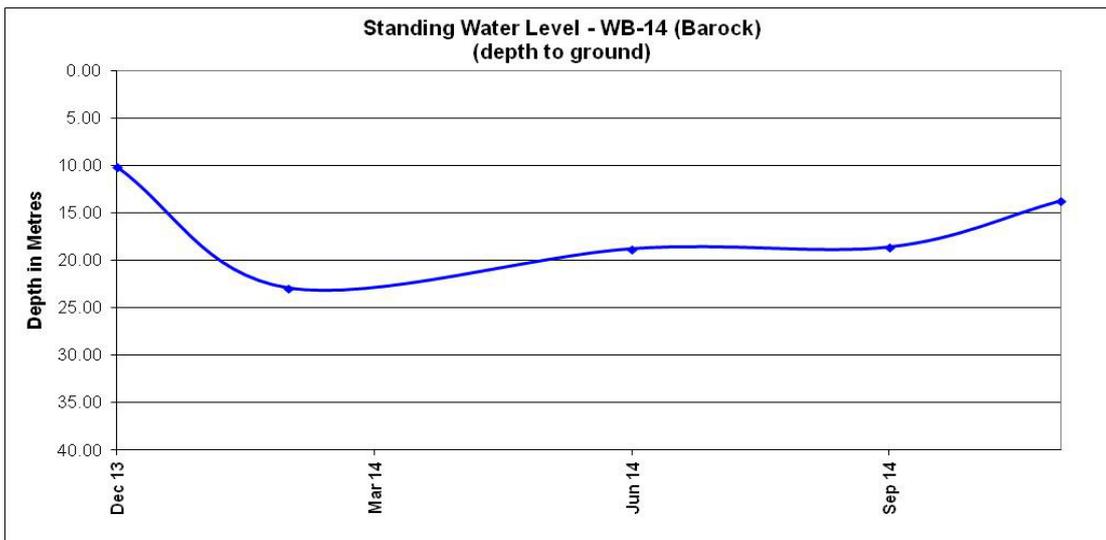
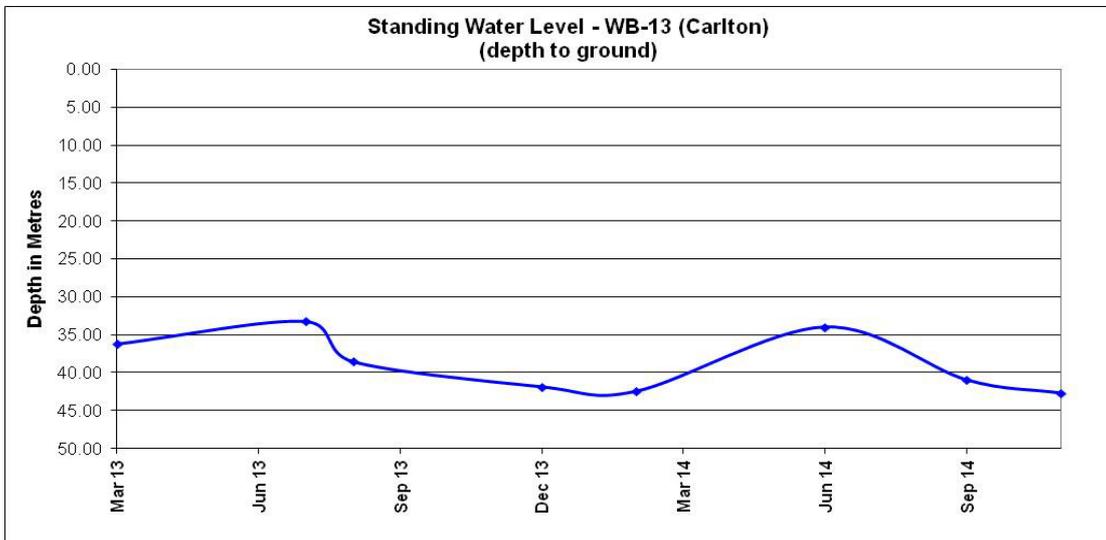
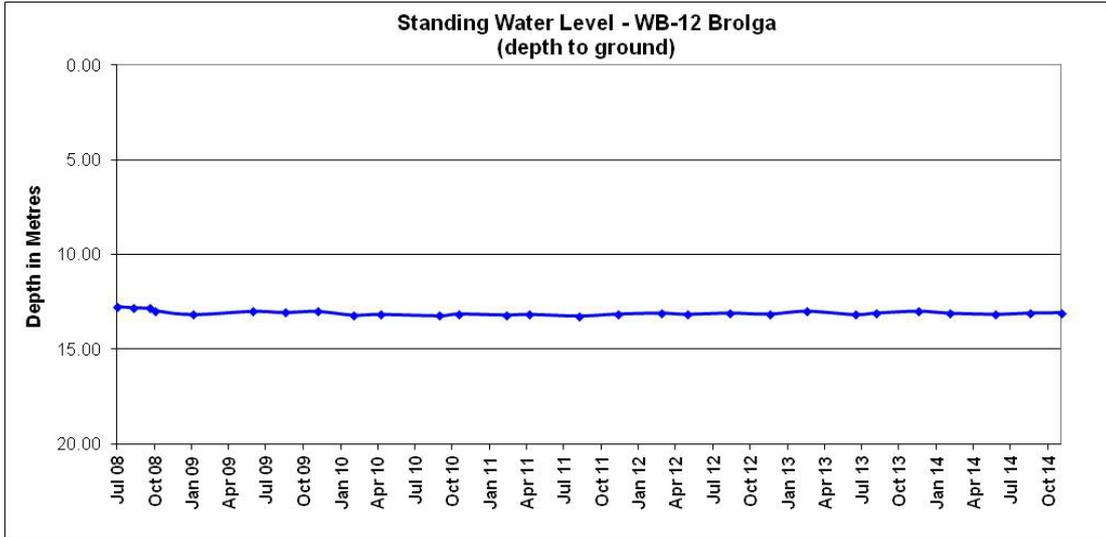


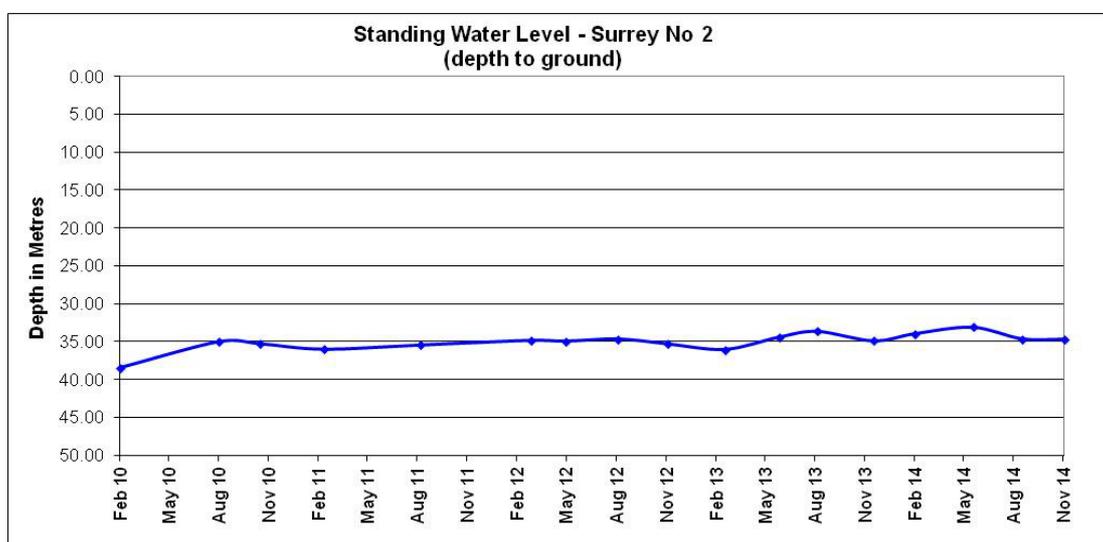
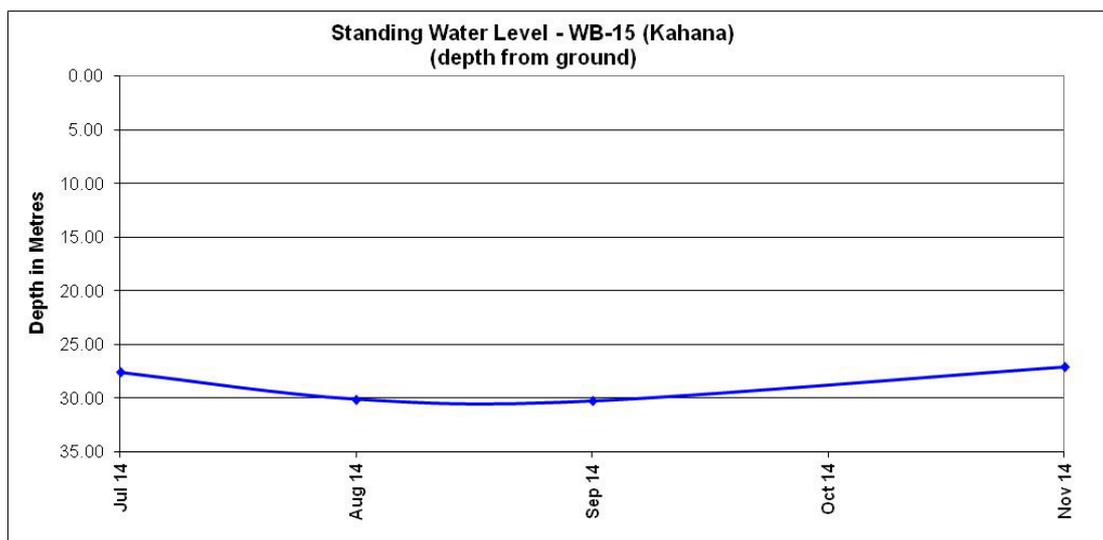












Standing water levels have remained relatively consistent since the last CCC meeting. MP-8 has returned to a normal SWL for that monitoring location with supports the assumption that the previous reading was an error. WB-5 (at Roseberry) continues to show a fluctuating trend associated with non mining activities.

Surface Water

No wet weather discharges occurred at Rocglen during the period.

Complaints

No complaints have been received since the last meeting.

Rehabilitation

During the reporting period, rehabilitation work has continued on the northern emplacement area. Shaping works on the northern emplacement area were undertaken, along with subsequent subsoil and topsoil replacement. Subsoil and topsoil replacement is scheduled for completion in late March to early April. Drainage works (contour drains, eastern drop down structure, conveyance channels etc) will be undertaken following final topsoil replacement in accordance with the landform drainage design that was finalised during the period. Mounding of the landform will be undertaken following drainage works. Revegetation of the northern

emplacement, generally woodland on the western side and pasture on the eastern side, will be undertaken following the completion of mounding.

Minutes of Rocglen Coal Mine Community Consultative Committee – Meeting #27

Meeting Held: Wednesday 9th September 2015

Venue: The meeting was held at the Rocglen Coal Mine Training Room

Commencement Time: 2:55pm

1. Present and Apologies

Present: Mr John Sturgess (JS) - Independent Chairperson
Mrs Jill Johnson (JJ) – Group Manager – Environment
Mr Jason Conomos (JC) - Operations Manager
Mrs Pam Burns (PB) - Community Representative
Mr Tim Muldoon (TM) - Group Manager Community Relations & Property
Clr Rebecca Ryan (RR) - GSC Representative
Miss Maddie Woodhead (MW) – Environmental Graduate

No advice: Mr Rod Barnes (RB) - Community Representative

2. Previous Minutes

Minutes accepted as a true record on the motion of PB and JS.

3. Business Arising from Previous Minutes

3.1. N/A

4. Mine Progress Report

JC provided an update on FY 15 results.

- Total Recordable Injury Frequency Rate (TRIFR) is currently at 0. The last recordable injury was on the 26th September 2013.
- Coal production at 1.1 Mt, which is 83,000 tonnes less than budget as a result in change to shift lengths in December to control costs.
- 6.2 million BCM of overburden moved, which was greater than budget.

5. Review of Environmental Performance

JJ presented the environmental monitoring results which are attached in the environmental monitoring report.

6. General Business

N/A

7. Next Meeting

The next meeting of the Rocglen CCC is scheduled for Wednesday 9th March 2016 at 3:00pm, with a site tour to follow the meeting.

Meeting closed 3:09pm.

J Sturgess
Chairman

Rocglen Coal Mine Community Consultative Committee Meeting #27

Environmental Monitoring Report February 2015 – August 2015

Noise Monitoring

Attended noise monitoring was undertaken between the 23rd and 25th March 2015, and again between the 9th and 11th June 2015, in accordance with the Rocglen Noise Monitoring Program and Environment Protection Licence Guidelines (90 minutes during the day, 30 minutes during the evening and 60 minutes during the night and occur for 3 consecutive operating days), with results outlined below:

Surrey

RCM Operational Noise Monitoring Results – 23 rd , 24 th and 25 th March 2015				
Date	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
23 rd Mar 2015	9:10 am	47	0.9 / N	Birds (47), RCM inaudible
23 rd Mar 2015	9:20 pm	33	Calm	Insects (32), RCM (27)
23 rd Mar 2015	11:41 pm	29	Calm	Insects (29), RCM inaudible
24 th Mar 2015	7:20 am	46	0.4 / NE	Birds (46), RCM (35)
24 th Mar 2015	7:44 pm	29	1.1 / E	RCM (26) , Insects (26)
24 th Mar 2015	10:01 pm	35	0.4 / SW	Insects (35), RCM inaudible
25 th Mar 2015	8:26 am	43	Calm	Birds (43), RCM (27)
25 th Mar 2015	8:15 pm	34	Calm	Insects (33), RCM (27)
25 th Mar 2015	10:15 pm	25	0.3 / ESE	Insects (25), RCM inaudible

Retreat

RCM Operational Noise Monitoring Results – 23 rd , 24 th and 25 th March 2015				
Date	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
23 rd Mar 2015	10:58 am	39	1.3 / W	Birds and insects (39), RCM inaudible
23 rd Mar 2015	8:29 pm	27	Calm	Insects (27), RCM inaudible
23 rd Mar 2015	10:25 pm	27	Calm	Insects (27), RCM inaudible
24 th Mar 2015	9:08 am	49	1.4 / N	Birds (49), other mine (32), RCM inaudible
24 th Mar 2015	8:32 pm	34	2.0 / E	Other mine (30), insects (29), wind (28), RCM inaudible
24 th Mar 2015	11:16 pm	27	0.8 / SW	Insects (26), other mine (21), RCM inaudible
25 th Mar 2015	10:11 am	46	0.4 / SW	Birds (46), other mine (29), RCM inaudible
25 th Mar 2015	9:13 pm	28	Calm	Insects (27), RCM (22)
25 th Mar 2015	11:31 pm	24	Calm	Insects (24), RCM inaudible

Surrey

RCM Operational Noise Monitoring Results – 9 th , 10 th and 11 th June 2015				
Date	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
9 th Jun 2015	1:15 pm	30	2.9 / W	Wind (29), RCM (<20)
9 th Jun 2015	8:22 pm	32	0.2 / NNE	RCM (32)
9 th Jun 2015	10:00 pm	30	0.4 / ESE	RCM (29), traffic (24)
10 th Jun 2015	7:06 am	40	0.2 / E	Birds (40), RCM (27)
10 th Jun 2015	8:31 pm	31	3.8 / E	RCM (31)
10 th Jun 2015	10:00 pm	31	4.1 / E	RCM (31)
11 th Jun 2015	7:04 am	43	1.3 / SE	Birds (43), wind (29), RCM (<20)
11 th Jun 2015	8:29 pm	29	3.4 / E	RCM (27), wind (25)
11 th Jun 2015	10:01 pm	31	3.9 / E	RCM (31)

Retreat

RCM Operational Noise Monitoring Results – 9 th , 10 th and 11 th June 2015				
Date	Time	dB(A),Leq (15 min)	Wind speed/ direction	Identified Noise Sources as dB(A) Leq (15 min)
9 th Jun 2015	2:59 pm	29	0.1 / WNW	Birds (26), wind (26), RCM (<20)
9 th Jun 2015	9:05 pm	33	0.4 / ESE	RCM (33)
9 th Jun 2015	11:12 pm	25	0.4 / E	Traffic (23), RCM (21)
10 th Jun 2015	8:50 am	40	0.7 / SSE	Birds (39), RCM (31), traffic (28)
10 th Jun 2015	9:15 pm	32	4.0 / E	Wind (30), frogs (26), RCM (22)
10 th Jun 2015	11:14 pm	31	5.6 / ESE	Wind (31), RCM (<20)
11 th Jun 2015	10:34 am	39	4.3 / ESE	Wind (37), birds (35), RCM (<20)
11 th Jun 2015	9:14 pm	32	3.6 / E	Wind (32) RCM (<20)
11 th Jun 2015	11:13 pm	30	3.5 / E	Wind (30), RCM (<20)

The results show that, under the operating and meteorological conditions at the time of monitoring, the mine noise did not exceed the operational noise criterion at either monitoring location, at any time.

Where the noise from RCM was audible at the Surrey and Retreat locations the most significant contributor was general mine hum and truck revs.

In addition to operational noise, the noise from the mine must not exceed 45 dB(A) L1 (1 min) between the hours of 10 pm and 7 am. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the mine. During the night time monitoring the L1 (1 min) noise from the mine did not exceed 45 dB(A) at either monitoring location, as shown below:

RCM Sleep Disturbance Monitoring Results 23 rd , 24 th and 25 th March 2015				
Date	Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
23 rd Mar 2015	Surrey	11:41 pm	n/a	Calm
24 th Mar 2015	Surrey	10:01 pm	28	0.4 / SW
25 th Mar 2015	Surrey	10:15 pm	n/a	0.3 / ESE
23 rd Mar 2015	Retreat	10:25 pm	n/a	Calm
24 th Mar 2015	Retreat	11:16 pm	n/a	0.8 / SW
25 th Mar 2015	Retreat	11:31 pm	n/a	Calm
RCM Sleep Disturbance Monitoring Results 9 th , 10 th and 11 th June 2015				
Date	Location	Time	dB(A),L1 (1 min)	Wind speed/ direction
9 th Jun 2015	Surrey	10:00 pm	28	0.4 / ESE
10 th Jun 2015	Surrey	10:00 pm	36	4.1 / E

11 th June 2015	Surrey	10:01 pm	35	3.9 / E
9 th Jun 2015	Retreat	11:12 pm	<20	0.4 / E
10 th Jun 2015	Retreat	11:14 pm	37	5.6 / ESE
11 th June 2015	Retreat	11:13 pm	<20	3.5 / E

Rocglen’s real time noise monitor is currently located at the “Penryn” property. The monitor’s alarm system notifies operations when noise levels approach compliance limits and allows for the opportunity to adjust operations accordingly. Currently, in-pit dumping is prioritised during night operations to reduce the likelihood of operational noise impacts.

Blast Monitoring

Since the first blast there have been 222 blasts (until the end of August). All blasts during the monitoring period were compliant within the limits of 120dB and 10mm/s.

Air Quality

Deposited Dust Results

The deposited dust results (g/m²/month) obtained for the site over the last 6 months are as follows:

Air Quality (Dust Deposition) Results

Month	BD2-A - Penryn	BD3 - Belah	BD4 - Surrey	BD5 - Stratford	BD6 - Roseberry	BD7 - Roseglass	BD8 - Yarrowonga
August 2014	4.3	0.3	4.0	1.0	0.1	0.3	1.1
September 2014	0.3	0.2	0.5	1.1	0.4	0.4	0.9
October 2014	2.2	0.9	0.9	1.2	3.5	1.5	1.3
November 2014	1.2	0.8	1.0	0.9	1.5	0.5	1.9
December 2014	2.7	3.7	1.6	2.3	1.3	2.5	115.6
January 2015	13.4	0.3	<0.1	0.8	1.0	1.5	0.8
February 2015	61.3	1.8	1.8	3.4	2.4	1.8	0.8
March 2015	0.7	7.9	0.7	2.1	0.5	1.6	1.1
April 2015	6.1	2.0	1.4	2.5	1.0	0.7	*
May 2015	1.4	0.5	1.0	0.2	<0.1	0.2	0.7
June 2015	1.8	0.8	0.7	0.3	<0.1	<0.1	0.4
July 2015	1.0	0.4	0.8	0.1	0.4	<0.1	0.2
Annual Average	3.2	1.6	1.3	1.3	1.2	1.1	0.9

* Bottle broken in transit

Results show an anomalous result of 61.3g/m²/month at Penryn in February 2015, which is not in line with monitoring results at the property in other monitoring periods or with monitoring results in February 2015 at all other monitoring locations. The result has been excluded from the annual average on the basis of sample contamination, as has the result of 115.6g/m²/month in December at Yarrowonga. The annual average at all sites remains below the concentration threshold of 4g/m²/month.

PM₁₀ Results

The annual averages for PM₁₀ levels up until the end of July 2015 remain below the annual average limit of 30µg/m³, as follows:

Costa Vale: 11.83 µg/m³

Roseberry: 12.41 µg/m³

The real time PM₁₀ monitor at Roseberry is currently operating to send alarms to operations in the event that PM₁₀ levels approach compliance limits.

Water Monitoring

Ground Water

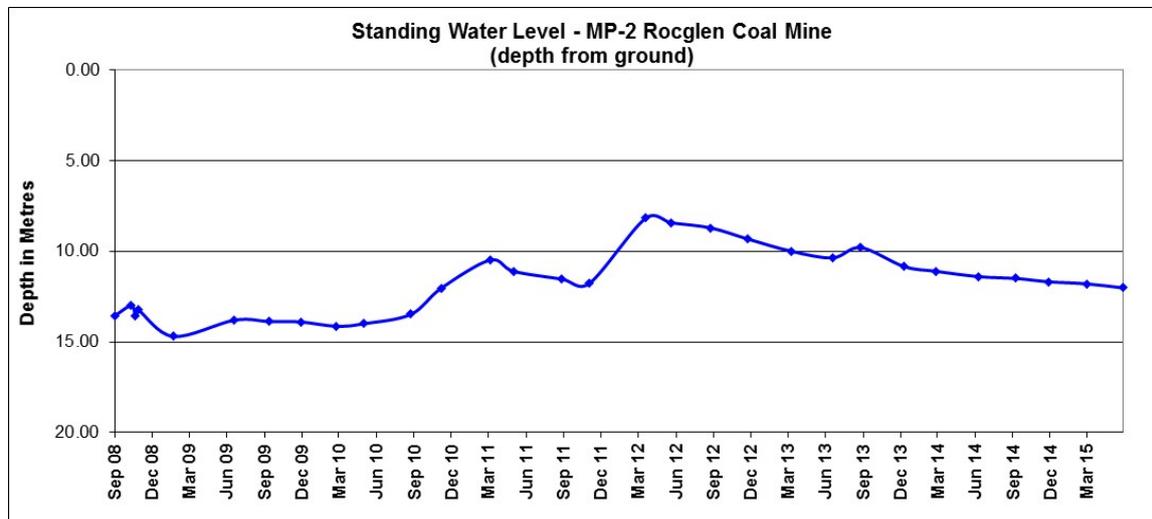
Groundwater monitoring data for the last 12 months is presented in the following table. Standing Water Level (SWL) graphs of bores with sufficient data sets are also provided.

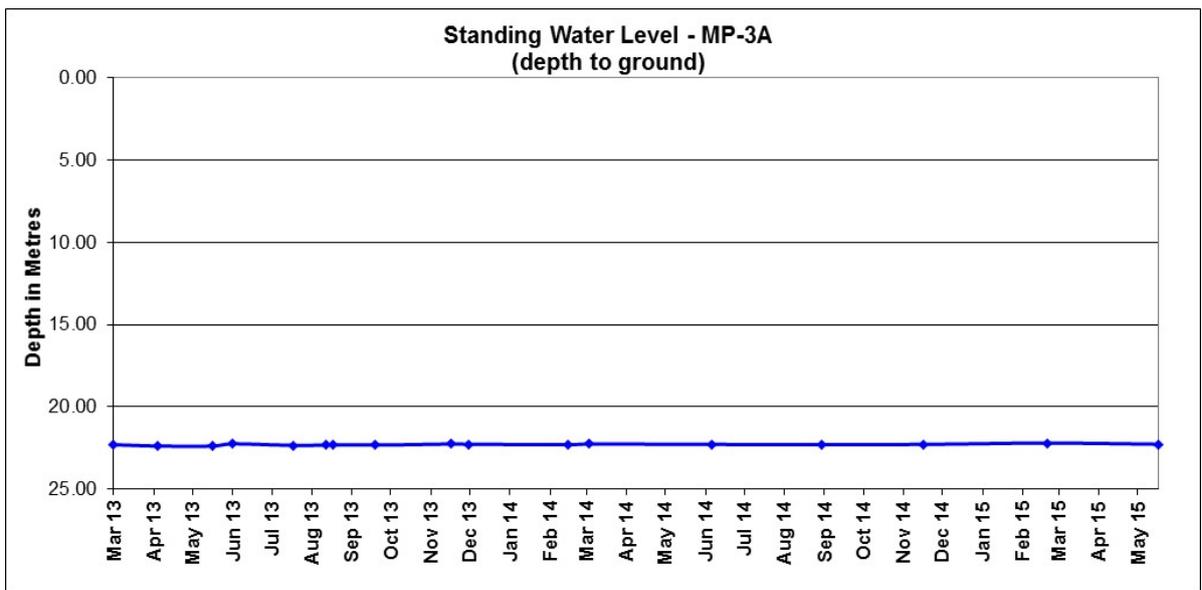
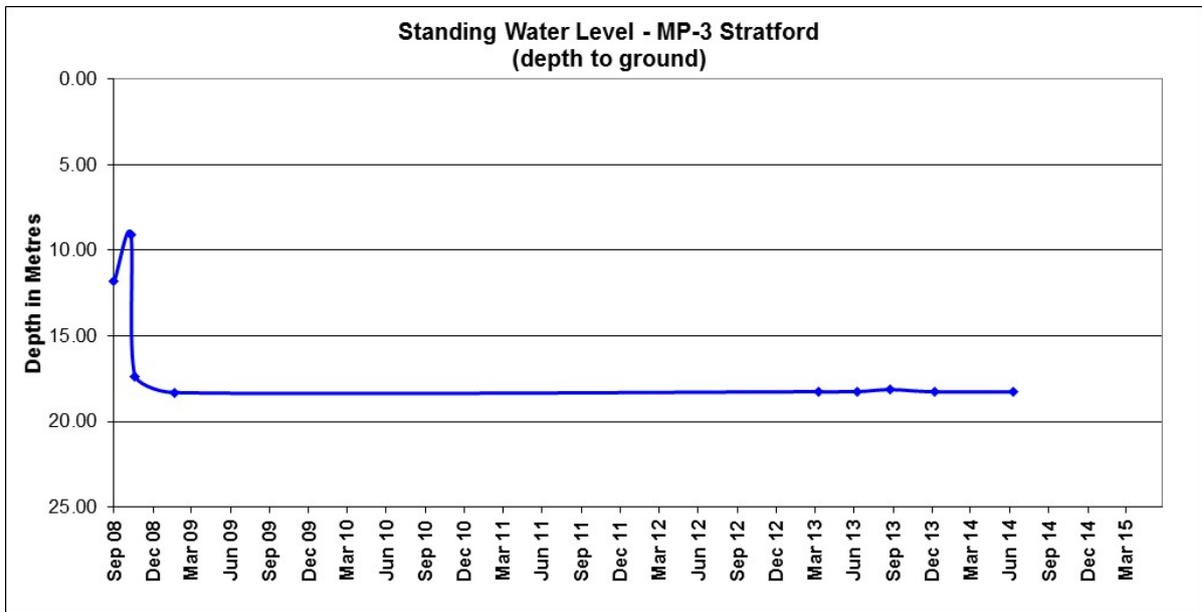
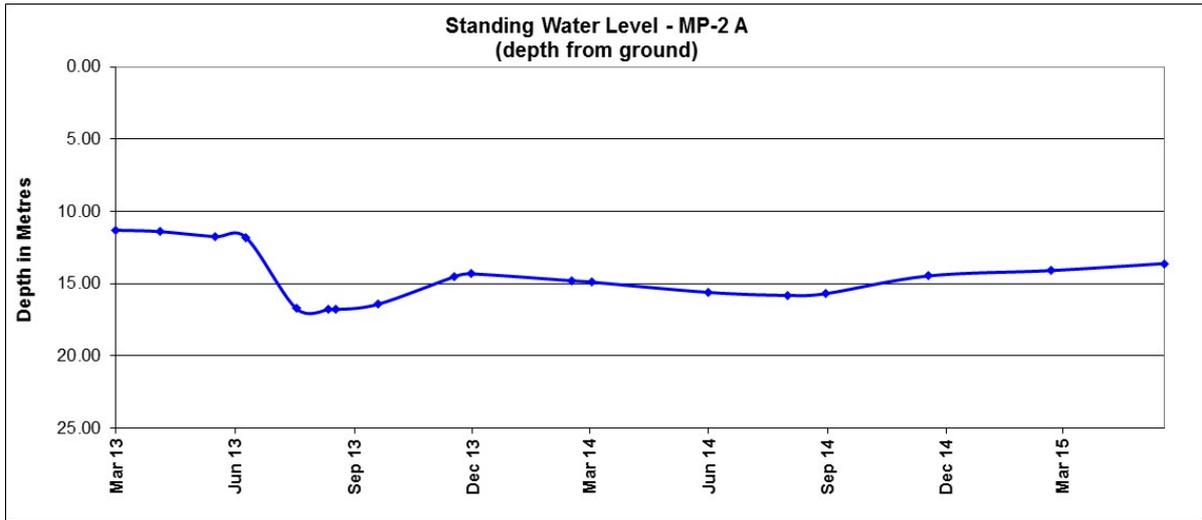
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP2	10 Sep 14	11.5	7.2	4930
	28 Nov 14	11.7	7.4	4910
	3 Mar 15	11.8	7.3	4900
	29 May 15	12.02	7.1	5070
MP2a	12 Jun 14	15.6	7.0	3180
	10 Sep 14	15.7	7.0	3210
	28 Nov 14	14.5	7.3	3220
	3 Mar 15	14.1	7.3	3280
	29 May 15	13.61	7.1	3540
MP3	12 Jun 14	18.3	Insufficient water to sample	
	10 Sep 14	18.3	Insufficient water to sample	
	27 Nov 14	Dry	Insufficient water to sample	
	3 Mar 15	Dry	Insufficient water to sample	
	28 May 15	Dry	Insufficient water to sample	
MP3a	17 Jun 14	22.3	7.8	1284
	10 Sep 14	22.3	7.8	1290
	27 Nov 14	22.3	7.9	1295
	3 Mar 15	22.2	8	1310
	28 May 15	22.3	7.9	1291
MP4	12 Jun 14	Dry		
	10 Sep 14	Dry		
	27 Nov 14	Dry		
	4 Mar 15	Dry		
	28 May 15	Dry		
MP4a	12 Jun 14	29.3	7.1	3690
	06 Aug 14	29.1		
	26 Aug 14	29.4		
	10 Sep 14	29.4	7.2	3720
	27 Nov 14	29.3	7.2	3700
	4 Mar 15	29.3	7.3	4420
	28 May 15	29.3	7.2	3870

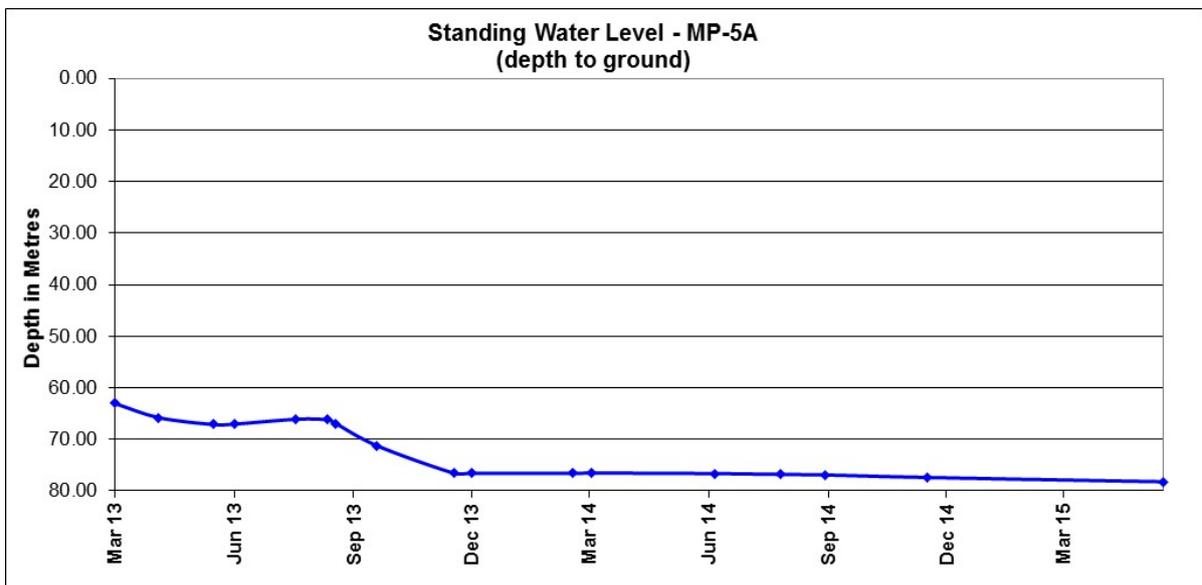
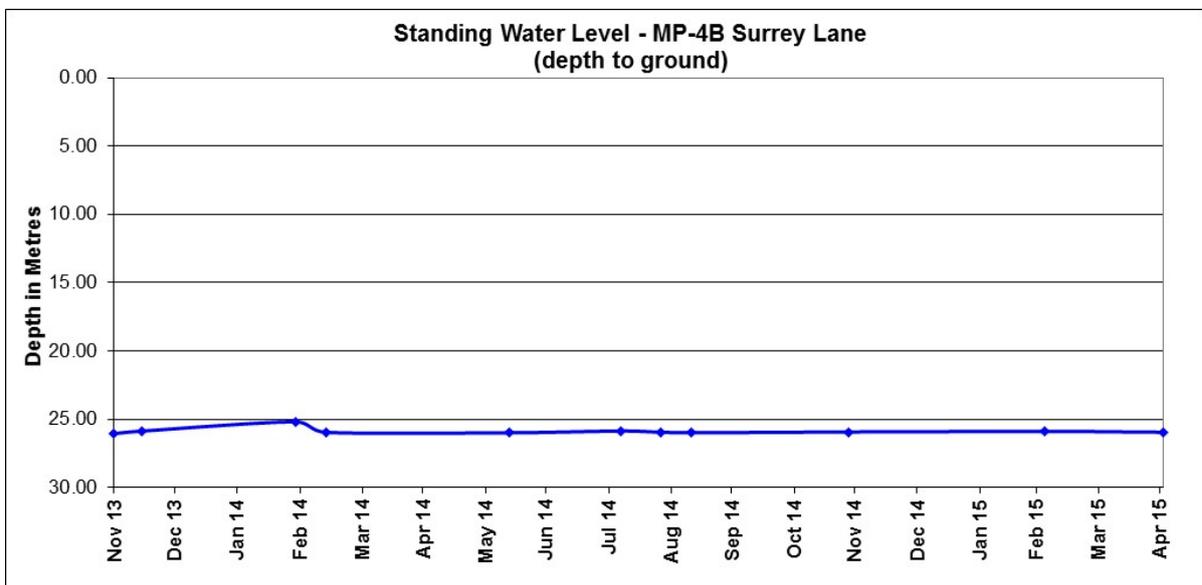
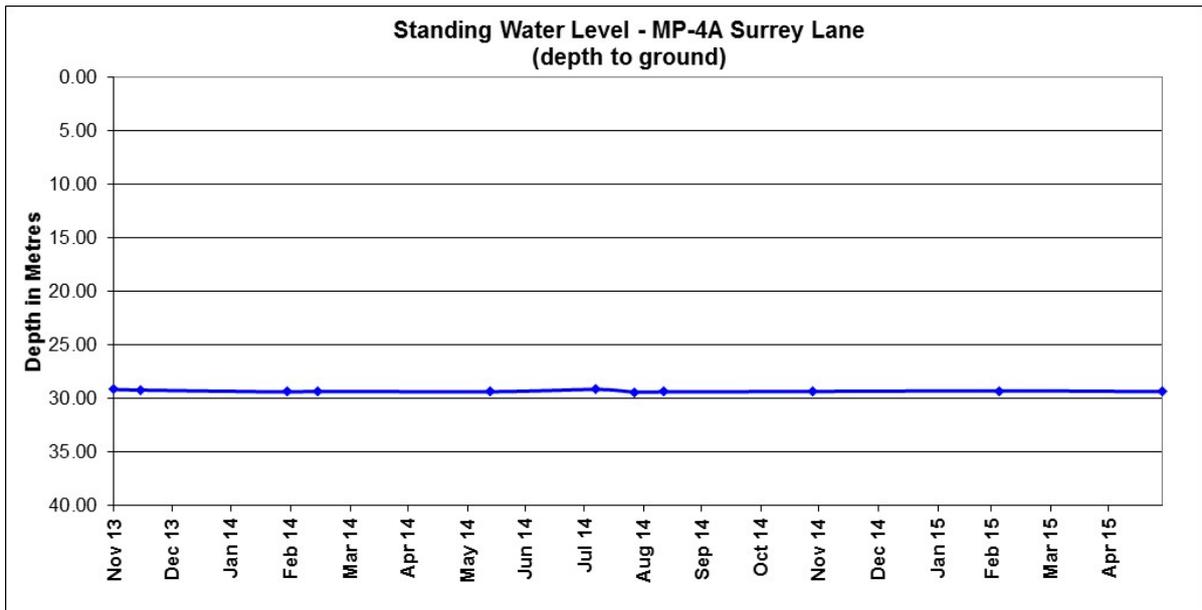
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
MP4b	12 Jun 14	26.0	7.3	2960
	06 Aug 14	25.9		
	26 Aug 14	26.0		
	10 Sep 14	26.0	7.4	2950
	27 Nov 14	26.0	7.4	2960
	4 Mar 15	25.9	7.6	2960
	28 May 15	26.0	7.6	2980
MP5	12 Jun 14	Dry	Insufficient water to sample	
	10 Sep 14	Dry	Insufficient water to sample	
	27 Nov 14	Dry	Insufficient water to sample	
	28 May 15	Dry	Insufficient water to sample	
MP5a	17 Jun 14	76.6	7.0	3010
	06 Aug 14	76.8		
	10 Sep 14	76.9	6.9	2990
	27 Nov 14	77.4	7.0	2890
	28 May 15	78.2	Mud only recovered	
MP6	12 Jun 14	8.3	7.3	2360
	10 Sep 14	8.3	7.4	2260
	27 Nov 14	8.4	7.5	2160
	3 Mar 15	8.43	7.6	2110
	28 May 15	8.47	7.5	2100
MP7	19 Jun 14	15.8	7.0	3050
	10 Sep 14	15.8	7.0	3040
	27 Nov 14	15.8	7.1	3060
	3 Mar 15	16.1	7.1	3010
	28 May 15	16.2	7	3070
MP8	19 Jun 14	16.0	6.9	4010
	12 Aug 14	16.1		
	10 Sep 14	7.8	6.7	4170
	27 Nov 14	16.0	7.0	4130
	3 Mar 15	16.2	6.9	4190
28 May 15	16.3	6.9	4210	
WB1	12 Jun 14	8.2	Windmill over bore	
	10 Sep 14	8.2	Windmill over bore	
	27 Nov 14	8.2	Windmill over bore	
	28 May 15	8.3	Windmill over bore	
WB2	12 Jun 14	15.8	8.7	2700
	10 Sep 14	18.8	7.8	2090
	28 Nov 14	19.8	8.2	2120
	3 Mar 15	17.4	7.7	2960
	29 May 15	15.8	8.6	2470
WB3	12 Jun 14	8.1	Pump over bore	
	11 Nov 14	8.1	Pump over bore	
	28 Nov 14	7.7	Pump over bore	
	28 May 15	7.7	Pump over bore	
WB4	12 Jun 14	Unable to dip	No sample	

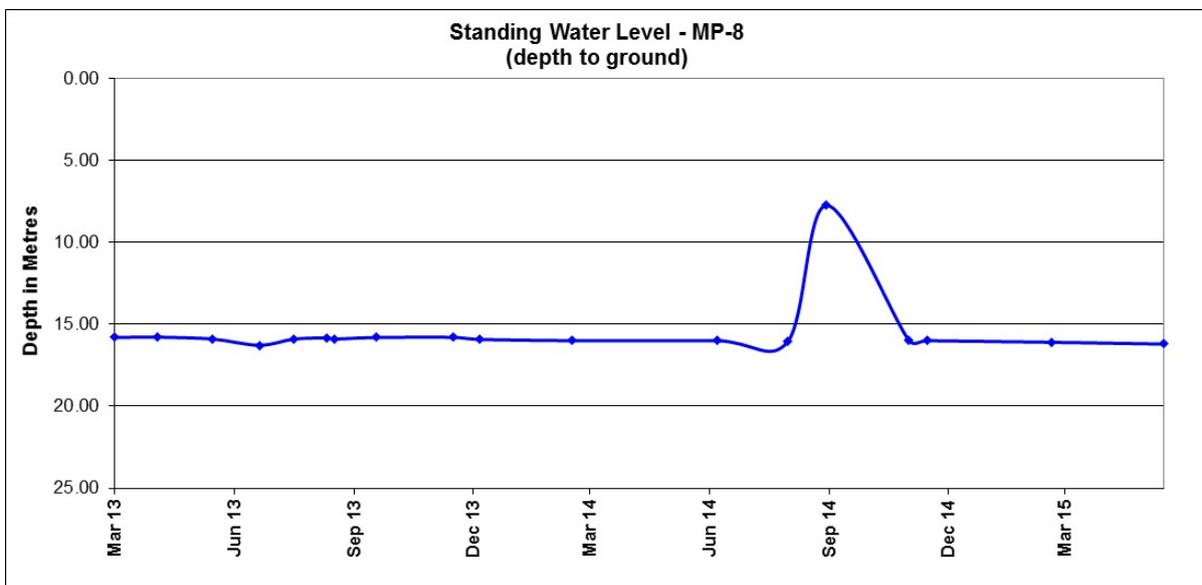
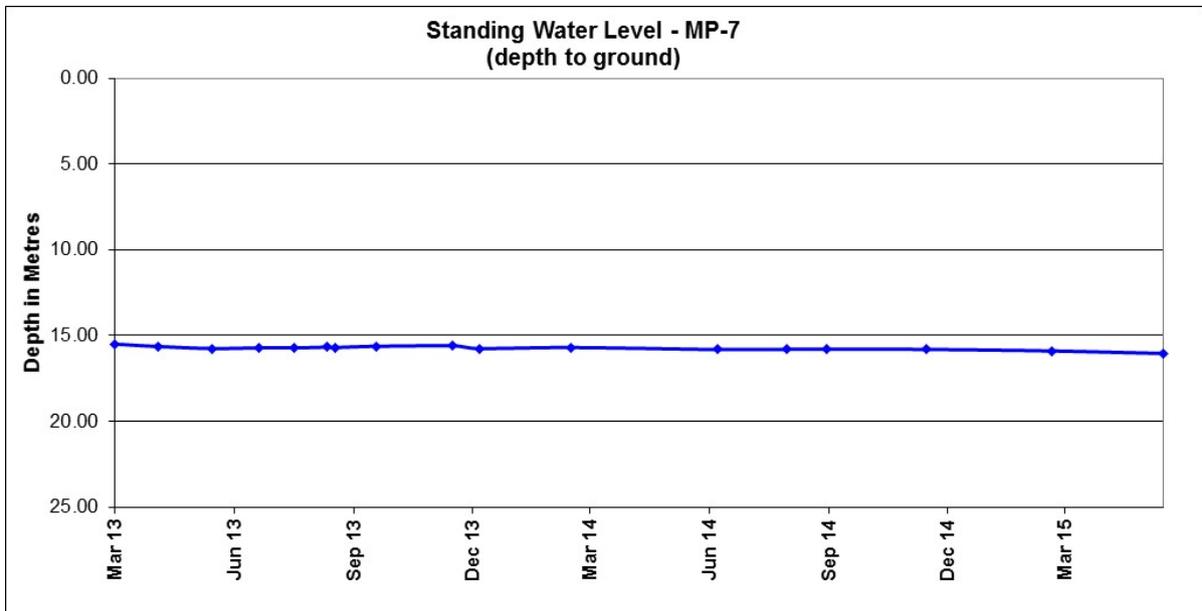
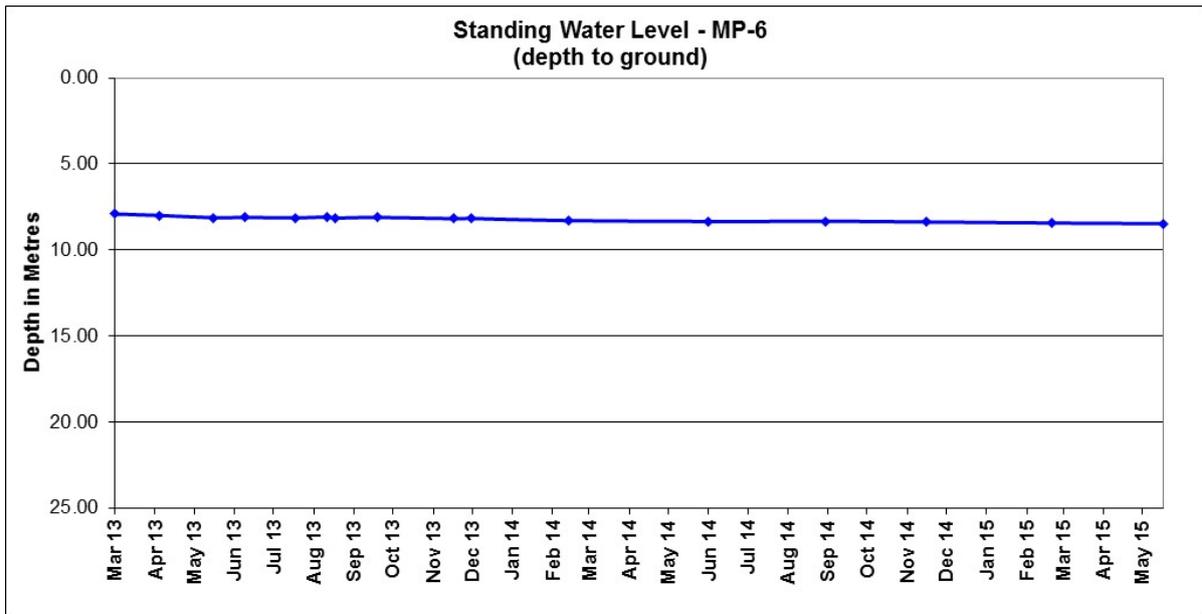
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
	11 Nov 14	Unable to dip	No sample	
	27 Nov 14	Unable to dip	No sample	
	28 May 15	Unable to dip	No sample	
WB5	12 Jun 14	12.6	7.9	7740
	10 Sep 14	14.5	7.6	5340
	28 Nov 14	19.9	7.9	5350
	3 Mar 15	11.5	7.8	7620
	29 May 15	11.6	7.4	7390
WB6	12 Jun 14	21.1	Bore equipped	
	10 Sep 14	21.2	Bore equipped	
	28 Nov 14	21.4	Bore equipped	
	29 May 15	21.9	Windmill over bore	
WB7	12 Jun 14	10.8	Windmill over bore	
	10 Sep 14	11.0	Windmill over bore	
	28 Nov 14	11.2	Windmill over bore	
	29 May 15	11.6	Windmill over bore	
WB8	12 Jun 14	29.8	Pump over bore	
	11 Sep 14	30.7	Pump over bore	
	27 Nov 14	30.7	Pump over bore	
	3 Jun 15	28.8	Pump over bore	
WB9	12 Jun 14	24.3	7.7	1250
	11 Sep 14	24.2	7.5	1180
	27 Nov 14	24.3	8.1	1070
	4 Mar 15	23.6	7.3	1240
	3 Jun 15	23.7	7.6	1120
WB10	19 Jun 14	14.1	7.1	2010
	11 Sep 14	13.9	7.0	1960
	28 Nov 14	14.2	7.1	7050
	3 Mar 15	14.6	7	2070
	3 Jun 15	14.1	7	2210
WB11	19 Jun 14	16.9	7.7	1420
	11 Sep 14	16.7	7.8	1210
	28 Nov 14	17.4	8.1	1310
	3 Mar 15	19.1	8	1320
	9 Jun 15	17.9	7.7	1567
WB12	19 Jun 14	13.1	8.0	1694
	11 Sep 14	13.1	7.9	1800
	28 Nov 14	13.1	8.3	1475
	3 Mar 15	13.2	8.3	1630
	3 Jun 15	13.2	8.2	1628
WB13	12 Jun 14	33.9	7.1	3540
	11 Sep 14	40.9	7.0	3380
	27 Nov 14	42.6	7.1	3510
	4 Mar 15	44.8	7	3500
	3 Jun 15	40.3	7	3410

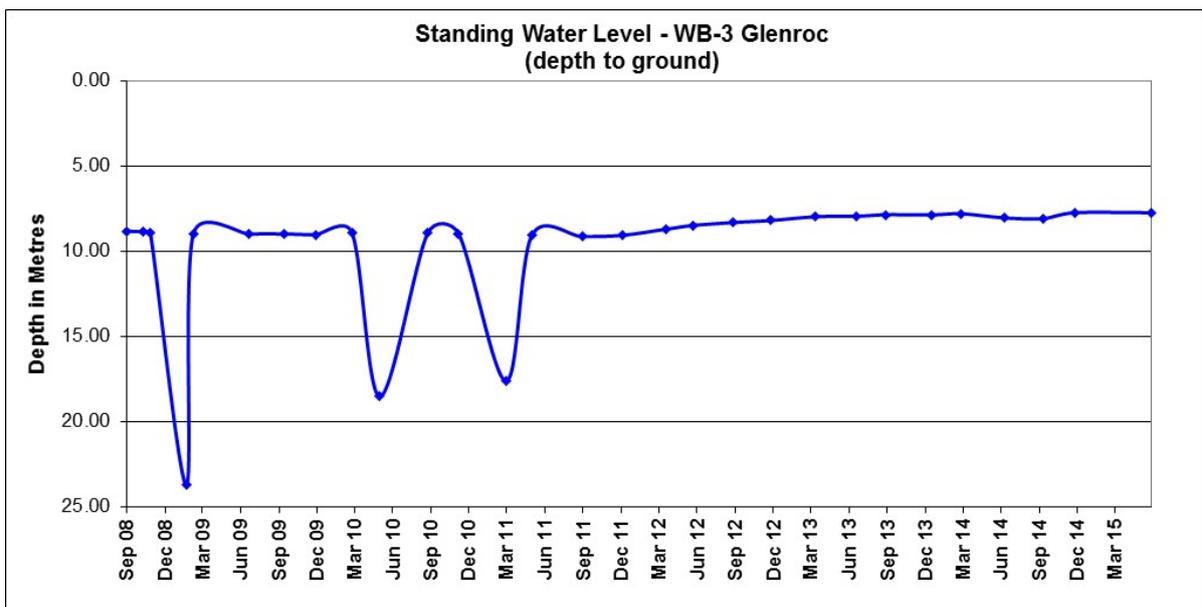
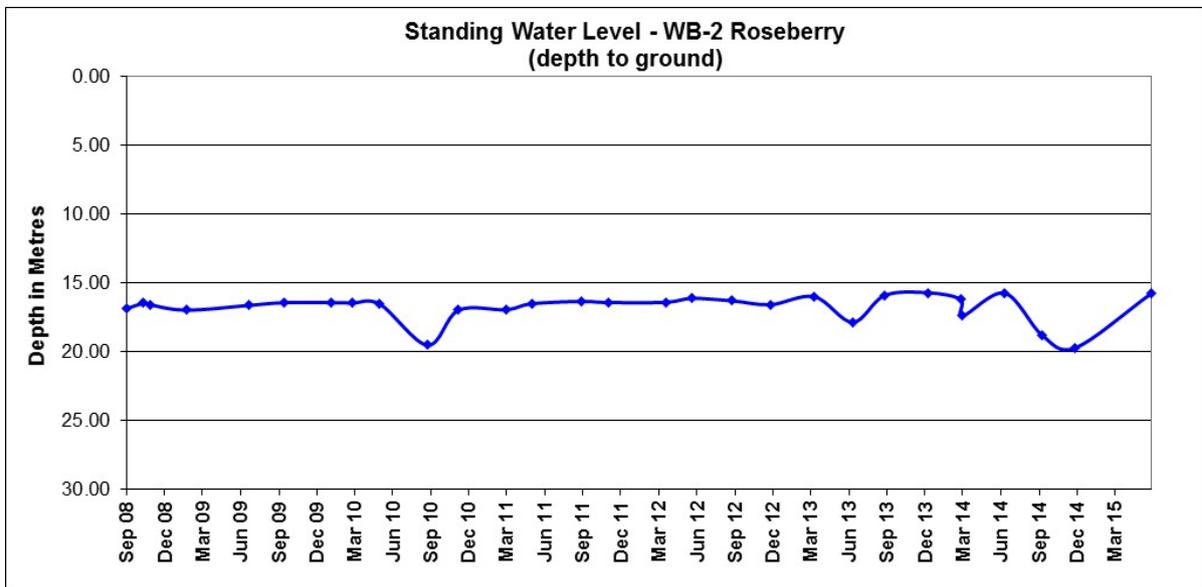
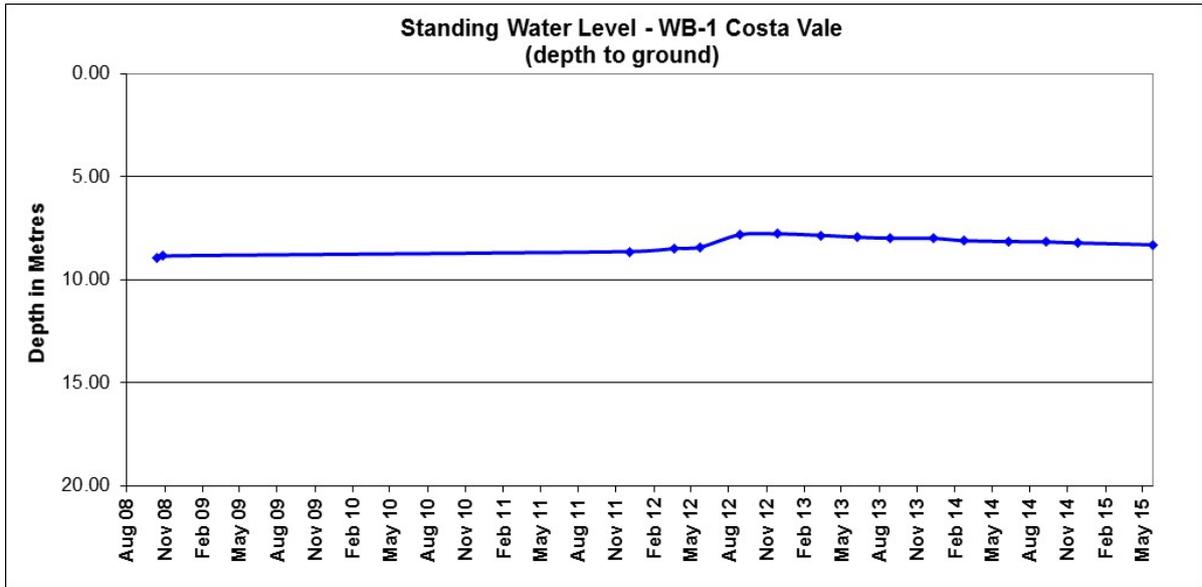
Site	Date	SWL (m)	pH	Elect. Conduct µs/cm
WB-14	12 Jun 14	18.8	7.7	1260
	11 Sep 14	18.6	7.7	1280
	27 Nov 14	13.7	7.7	1290
	4 Mar 15	23	7.8	1280
	3 Jun 15	22.3	7.7	1260
WB-15	11 Jul 14	27.6		
	26 Aug 14	30.1		
	11 Sep 14	30.3	6.9	1390
	27 Nov 14	27.1	7.0	1400
	4 Mar 15	27.2	7.4	1280
	3 Jun 15	27.4	7.2	1380
Production Bore	12 Jun 14	Bore Equipped	7.0	3590
	10 Sep 14	Bore Equipped	6.9	3620
	28 Nov 14	Bore Equipped	7.0	3550
	3 Mar 15	Bore Equipped	7.1	3520
	29 May 15	Bore Equipped	6.9	3630
Surrey No.2	12 Jun 14	32.7	7.3	3310
	11 Sep 14	34.3	7.2	3620
	27 Nov 14	34.3	7.4	3170
	4 Mar 15	34.3	7.4	3210
	3 Jun 15	32.5	7.4	3210

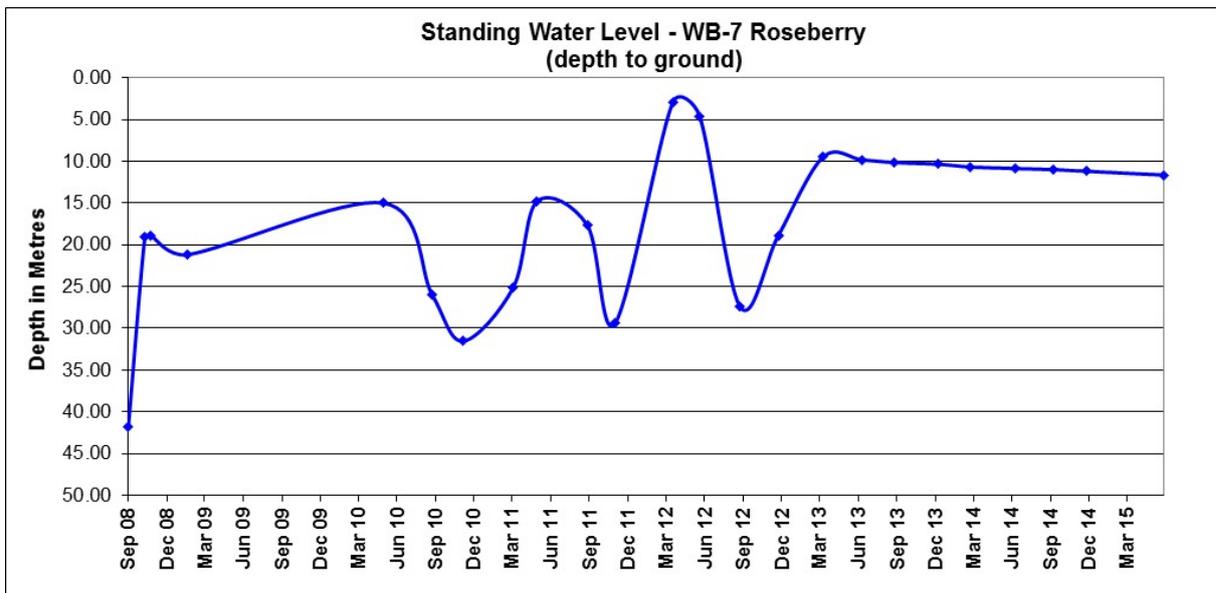
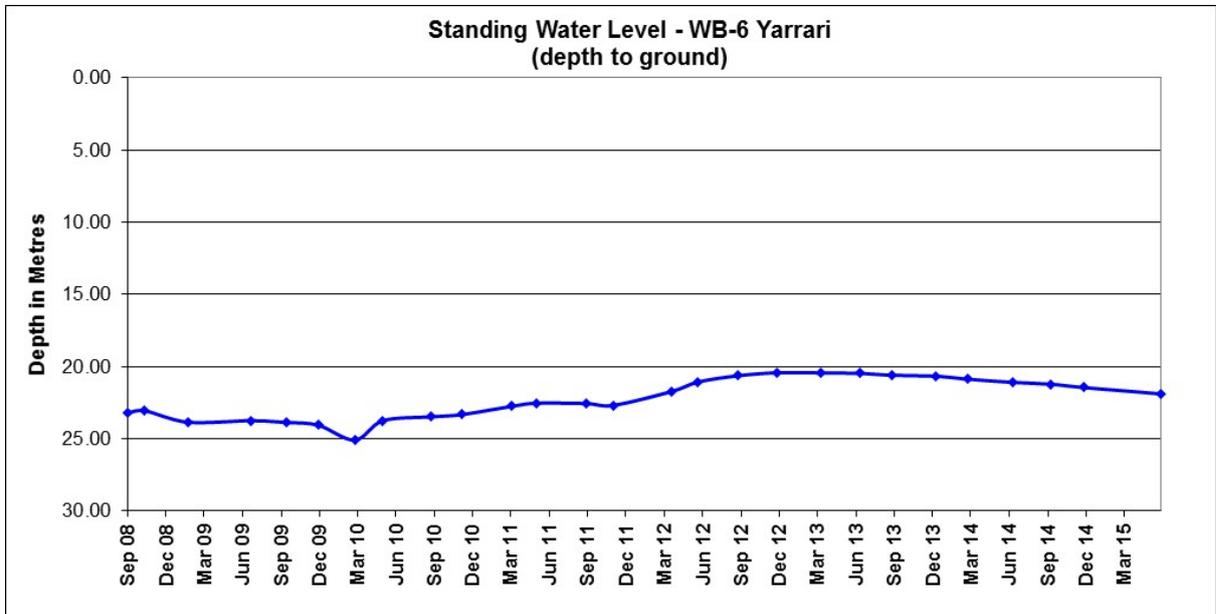
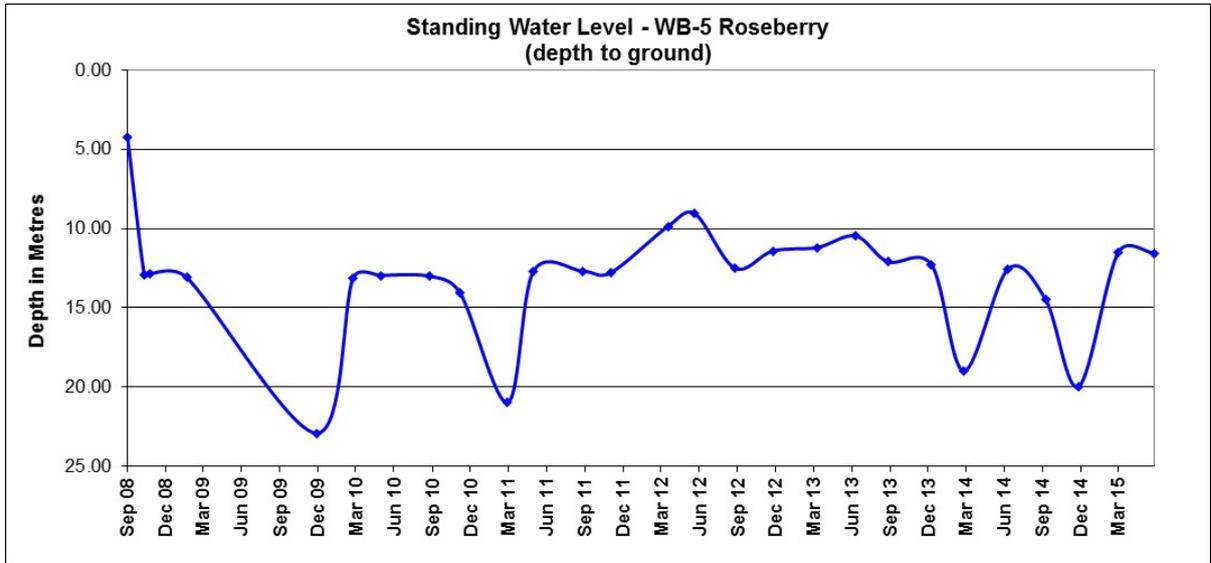


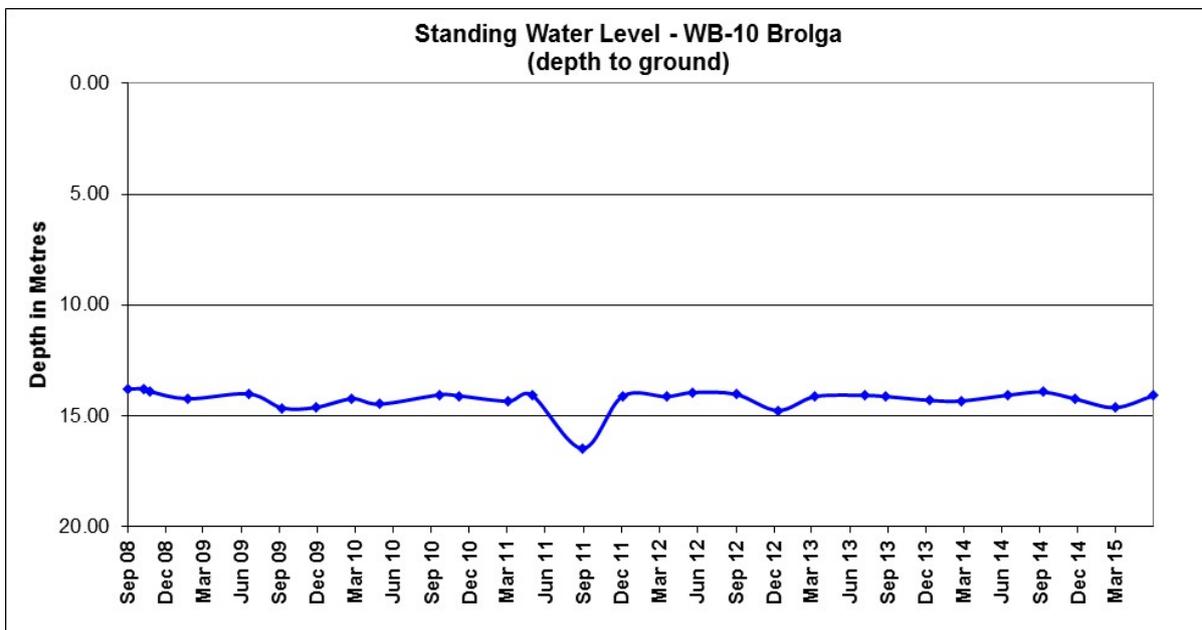
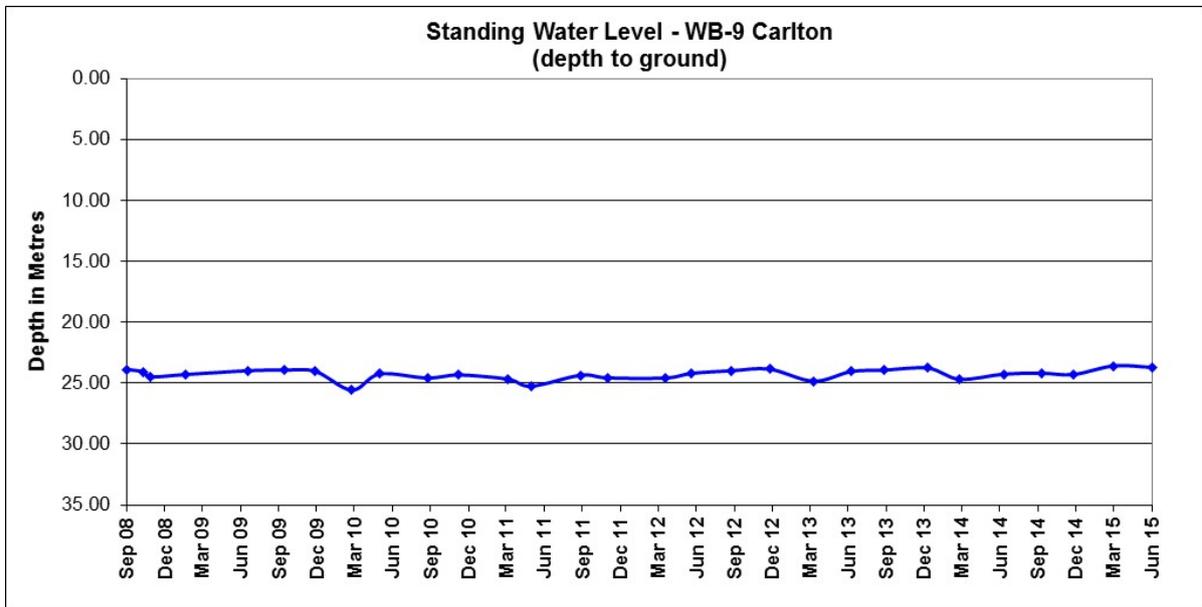
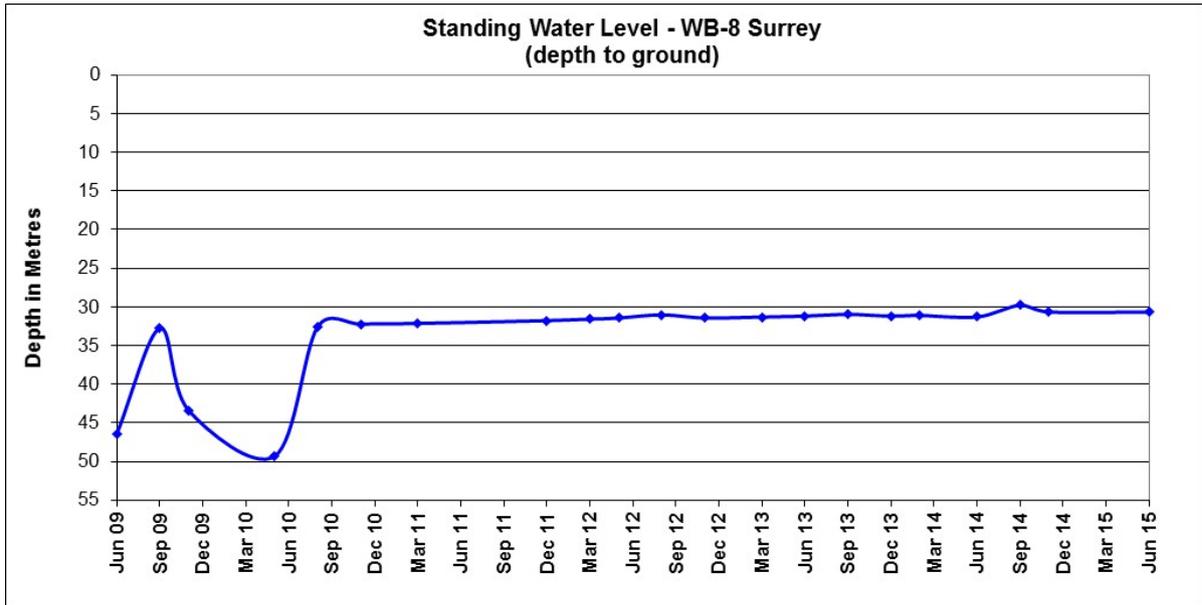


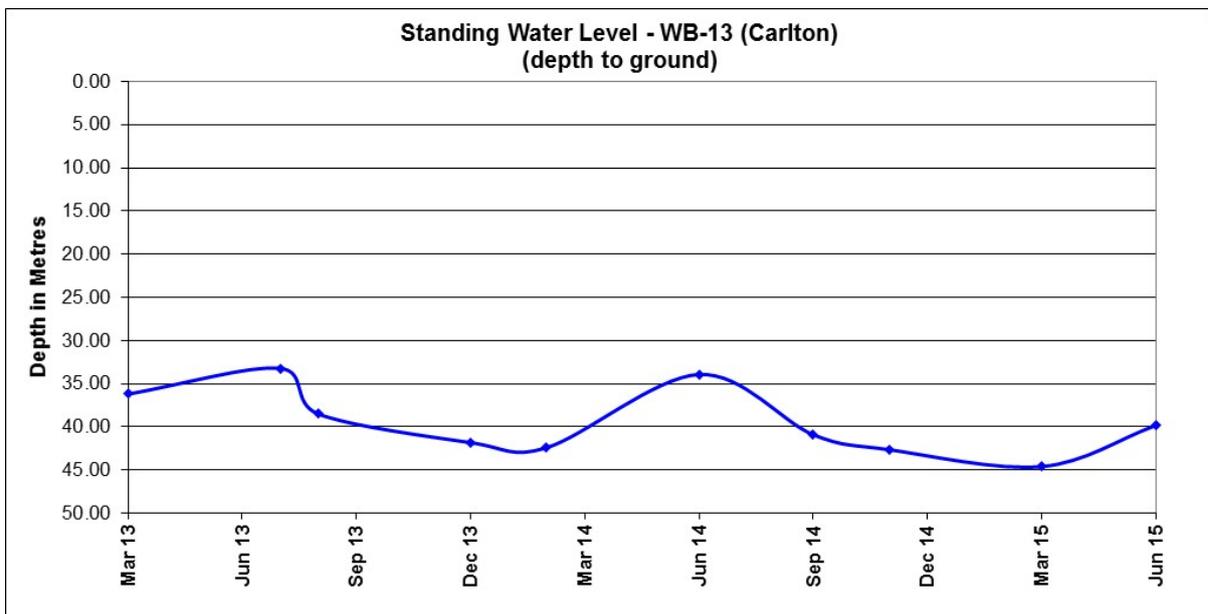
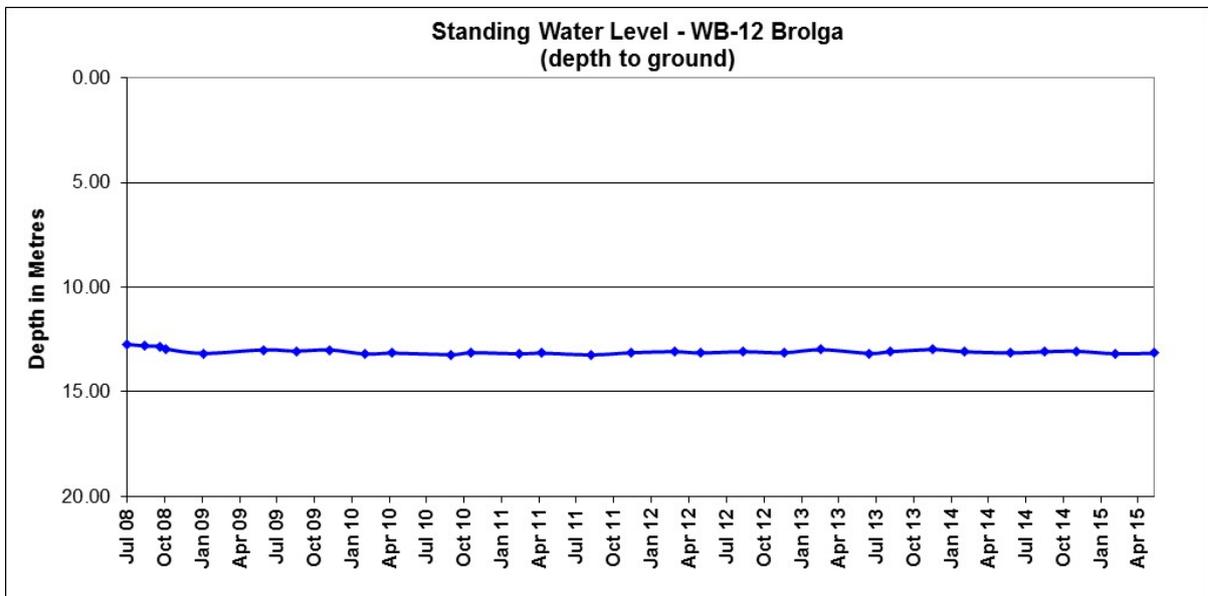
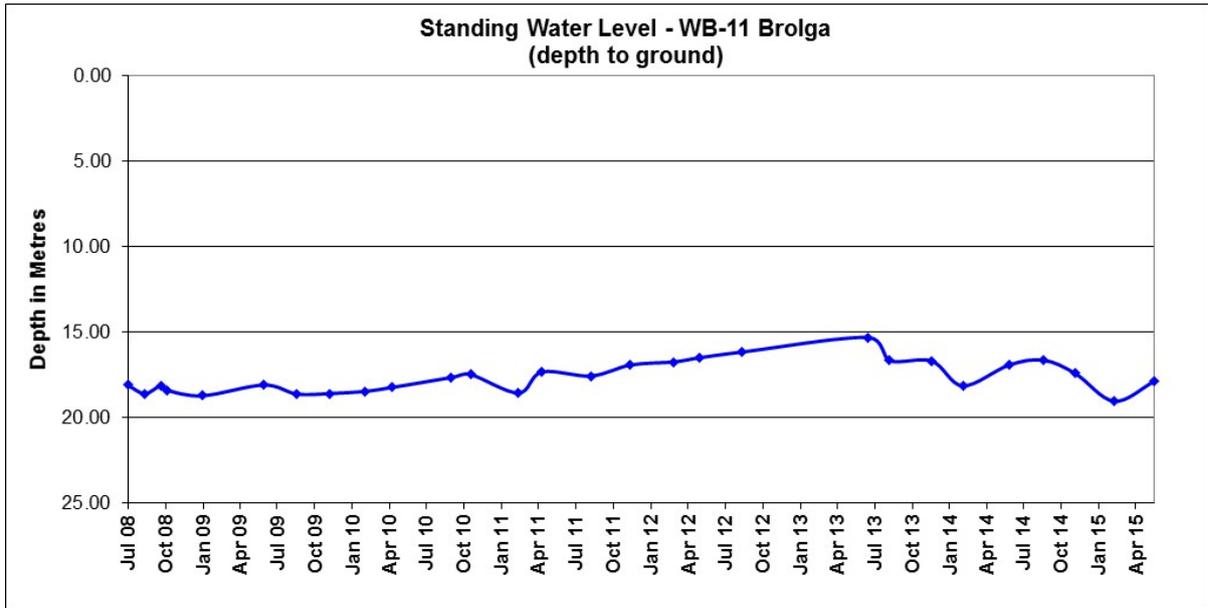


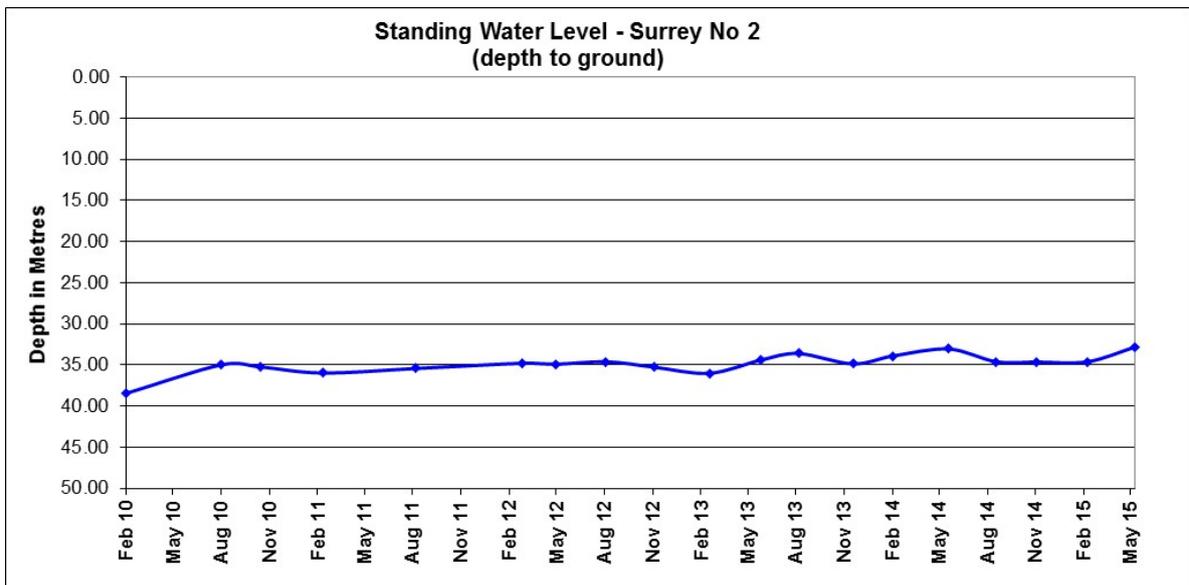
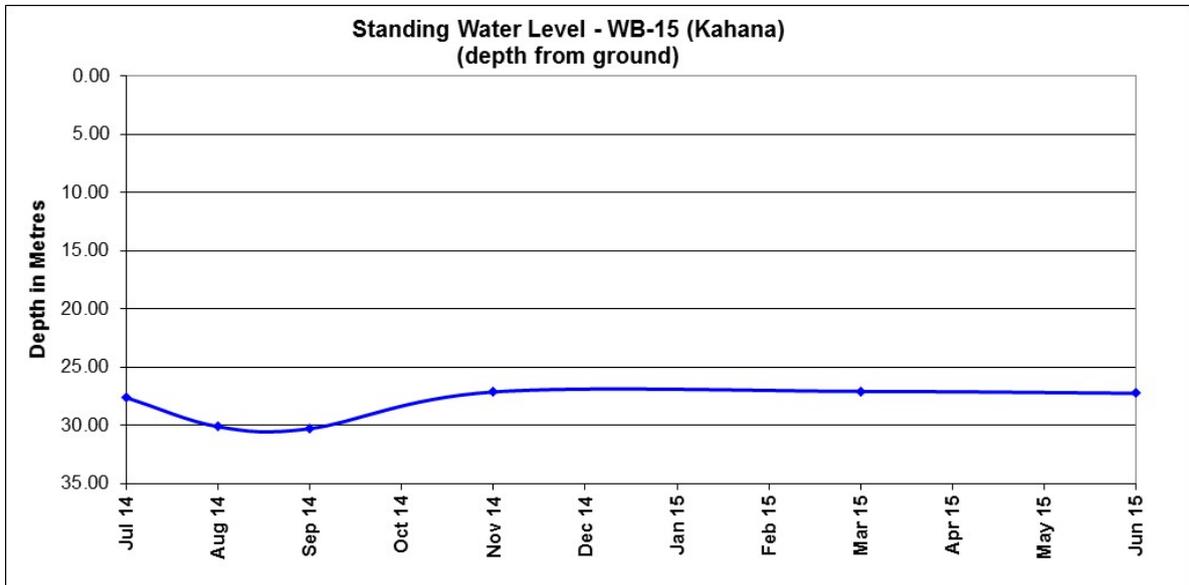
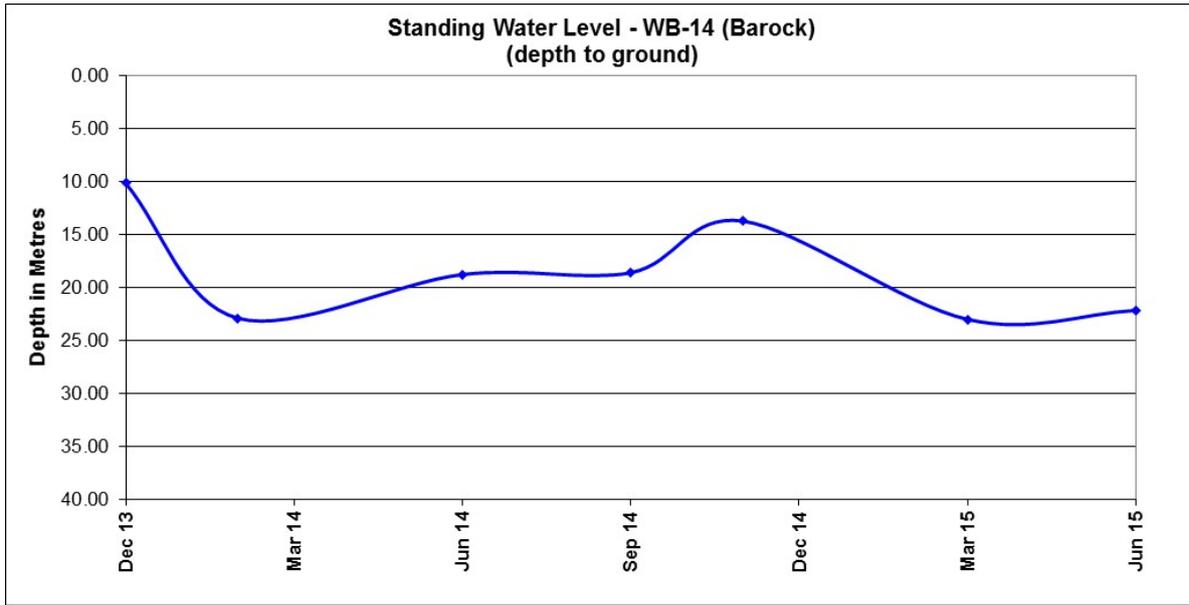












Standing water levels have remained relatively consistent since the last CCC meeting. WB-5 (at Roseberry) continues to show a fluctuating trend associated with non mining activities.

Surface Water

Two wet weather discharges occurred since the last CCC meeting, on the 7th and the 21st April 2015, both from licenced discharge points nominated in the EPL. Both discharges were compliant following rainfall of greater than 38.4 mm in 5 days on both occasions.

Complaints

No complaints have been received since the last meeting.

Rehabilitation

Construction of drainage and earthworks (contour drains, eastern drop down structure, conveyance channels etc) has begun on the northern rehabilitation area. Mounding of the landform will be undertaken following drainage works. Revegetation of the northern emplacement, generally woodland on the western side and pasture on the eastern side, will be undertaken following the completion of mounding.