

Community Consultative Committee Meeting Minutes

Meeting No: 8

Date: 2 March 2010

Time: 4.00pm

Location: Narrabri Coal Operations Site Office

Present: Terry Miller - Chairman

Sally Hunter

James Stieger

Peter Webb

Mark Foster

Clr Ken Bates

Clr Lester Kelly

Ben Bomford (Narrabri Coal Operations Project Manager)

Kellie Maslen (Site Clerk)

Jill Scealy (Whitehaven Environmental Officer)

Danny Young (Whitehaven Environmental Manager)

Greig Duncan (Narrabri Coal Operations General Manager)

Steve O'Donoghue (Department of Environment, Climate Change and Water)

Jessica Barnes (Department of Environment, Climate Change and Water)

1.0 Apologies

Clr Les Knox

2.0 Previous Minutes

Moved James Stieger, Mark Foster

2.1 Business Arising from Previous Minutes

In response to the request made by James Stieger that a representative from DECCW attend one of the CCC meetings.

Department representatives attended the meeting and explained that they are involved in the planning for the Mine, issuing the Environmental Protection License and are available for any environmental concern enquiries on the 24 hour phone line 131 555. Most mine related environmental issues are resolved in the planning process with most problems coming from older mines.

James Stieger expressed his interest in the runoff water from the mine to Bow Hills. There have been no problems to date. Steve explained that all water issues are addressed in the planning stages.

Open day postponed until the end of October when the Longwall will be assembled on the surface.

3.0 General Business

3.1 Construction Progress Report

Kamilaroi Highway Upgrade	Complete
Earthworks and Rehabilitation	Complete
Site access & Kurrajong Creek Road	Complete
Industrial Complex	Complete

Ventilation Fans	Complete
66kv Transmission Line	Complete
Rail Loop	Complete
Sewerage Treatment Plant	Complete
Mine Entry	Complete
Boxcut	Complete
High and Low Voltage Works	Complete
Drift Construction	85% Complete
Mining Equipment Delivery	90% Complete
Drift & Skyline Conveyors	Complete
Coal Processing Plant	97% Complete
Train Loadout	90% Complete

Sally Hunter asked about any responses to the Stage 2 application

- There have been few public submissions
- Government Department main issues are ground water, biodiversity offsets and noise.
- Brine from treatment of mine water is intended to be stored in ponds on the surface and re-injected underground. Investigations into alternative technologies will be conducted over the life of the mine.
- Noise generated from surface construction has been the focus for much investigation for the Environmental Assessment. To ensure actions taken to limit noise will comply with the allowance a portable monitoring unit will be used.
- Main construction remaining includes shaft, CHPP and gas drainage.

3.2 Environmental Overview

As per provided report.

Questions arose about water production from Gas drainage, with 45 Kilolitres of water coming from in-seam drilling. Water being stored in pit top ponds.

4.0 Complaints and Complaints Hotline

As per provided report

5.0 New Business

Employment

- Rosters were confirmed to be 8.5 hour shifts 5 days per week.
- 12 hour shifts on weekends.
- Employment Agreement finalised.
- Job offers to be made for first crews commence end of May. First intake 30 people. Will advertise for inexperienced people in May.

6.0 Next Meeting

Tuesday 1 June 2010, 4pm, Site Office
Meeting closed 4.45pm

Narrabri Coal Project Community Consultative Committee Meeting #8

Environmental Monitoring Report November 2009 – January 2010

Noise Monitoring

Attended noise monitoring was undertaken on the 14th and 15th December 2009 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

NCM Noise Monitoring Results – 15 December 2009 (Day)

Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:57 am	53.3	1-2 m/s SE	Traffic (53), Plane (34), NCM inaudible
Naroo	8:35 am	42.1	1-2 m/s SE	Traffic (40), birds (37), NCM inaudible
Claremont*	8:17 am	38.6	1-2 m/s SE	Birds (37), Traffic (34), NCM (25)
Westhaven	7:42 am	36.2	1-2 m/s SE	Birds (35), Traffic (29), NCM (23)
Greylands	7:04 am	41.2	1-2 m/s SE	Traffic (38), Birds (34), Wind (32), NCM (25)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

NCM Noise Monitoring Results – 14 December 2009 (Evening)

Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	9:36 pm	52.1	2-4 m/s S	Traffic (52), Wind (40), NCM inaudible
Naroo	8:12 pm	47.5	2-4 m/s S	Traffic (46), Wind (35), NCM inaudible
Claremont*	8:35 pm	37.3	2-4 m/s S	Wind (36), Pump (32), NCM inaudible
Westhaven	8:57 pm	38.4	2-4 m/s S	Wind (37), Insects (34), NCM inaudible
Greylands	9:14 pm	40.5	2-4 m/s S	Wind (40), NCM inaudible

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

NCM Noise Monitoring Results – 15 December 2009 (Night)

Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	5:27 am	34.4	1-2 m/s SE	Insects (30), Wind (30), NCM (22)
Naroo	4:17 am	45.9	1-2 m/s SE	Traffic (44), Wind (33), NCM inaudible
Claremont*	4:36 am	40.6	1-2 m/s SE	Car (39), Wind (32), NCM inaudible
Westhaven	4:52 am	35.5	1-2 m/s SE	Wind (35), NCM inaudible
Greylands	5:09 am	41.8	1-2 m/s SE	Birds (39), Wind (35), NCM inaudible

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

The results indicate that noise emissions from the mine were below the criterion of 35 dB(A), $L_{eq}(15min)$ at all receivers.

Unattended noise monitoring was also undertaken in December 2009, as required under the consent. Noise logs have been provided to Narrabri Coal from the consultant as part of the background noise collation. This data does not distinguish between mine and other noise sources and as such the data is not presented in this report. It is anticipated that following the first 12 months of mining from the project site, the requirement for ongoing unattended noise monitoring will be removed.

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont
February 2009	1.8	1.9	0.5	9.4	2.0	13.8	1.0	0.8
March 2009	0.6	13.8	3.1	5.1	35.5	6.6	3.6	3.5
April 2009	1.4	0.6	0.3	33.5	1.4	2.0	1.0	0.1
May 2009	1.1	0.8	7.5	4.1	5.3	2.6	5.8	2.4
June 2009	0.4	0.5	4.0	3.7	4.9	1.5	3.0	2.2
July 2009	0.9	0.4	3.2	0.8	7.9	0.7	1.9	1.6
August 2009	64.4	2.2	6.2	1.5	1.6	2.3	1.5	1.4
September 2009	18.9	20.5	18.1	23.6	12.9	14.3	12.6	19.1
October 2009	8.3	4.2	4.8	2.7	2.7	0.9	2.7	4.1
November 2009	7.0	1.9	1.5	2.2	1.9	1.9	2.8	1.5
December 2009	15.4	10.3	2.3	3.1	1.9	1.9	1.7	1.8
January 2010	10.7	3.8	1.4	11.0	1.6	5.4	1.5	5.0
Annual Average	10.9	5.1	4.4	8.4	6.6	4.5	3.3	3.6

Deposited dust results have returned to more normal levels since the last CCC meeting, with the exception of ND1 (Turrabaa) and ND4 (Matoppo). These elevated results are believed to be associated with contamination issues rather than mining operations with no samples returning turbid waters but comprising contaminants such as plant matter and bird droppings. The annual average at most sites remains above the annual average criteria of 4 g/m²/month which is attributable, in part, to the dust storm events in late 2009 and other outlier results which have skewed the overall average.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the "Claremont" High Volume Air Sampler is returning a running annual average of 16.67 µg/m³ which is well below the annual average limit of 30 µg/m³.

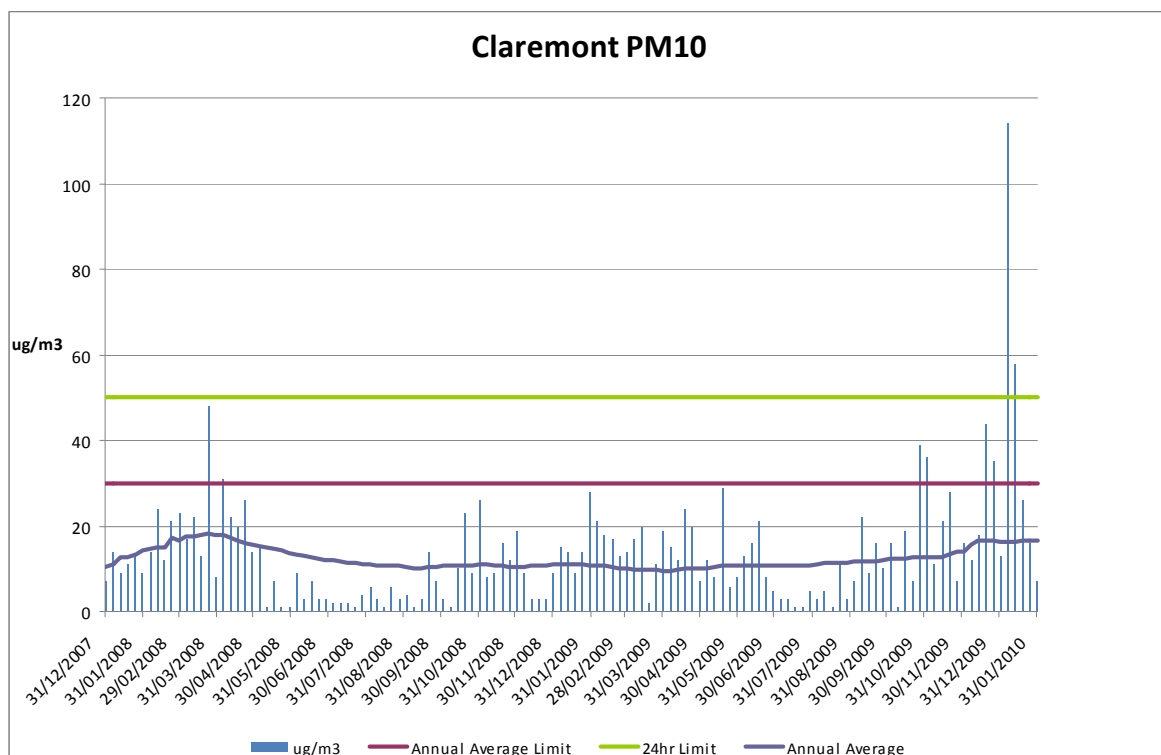
PM₁₀ measurements taken to date for the “Turrabaa” High Volume Air Sampler is returning a running annual average of 16.84 µg/m³ which is well below the annual average limit of 30 µg/m³.

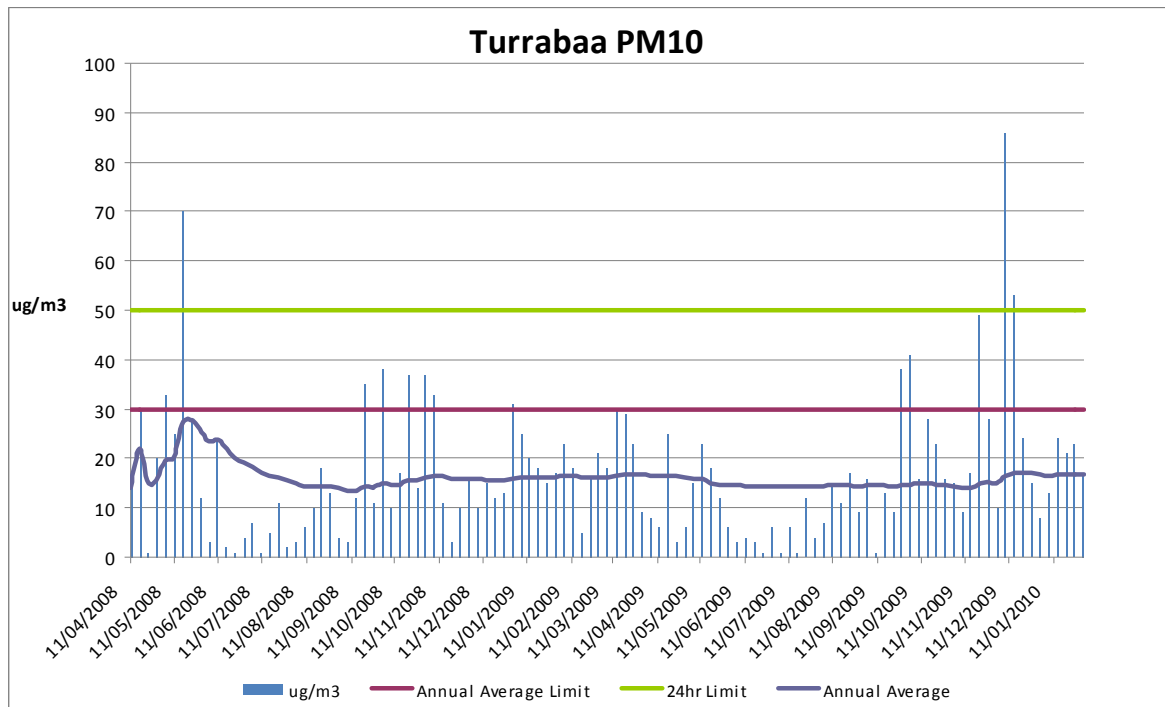
The 24hr criterion of 50 µg/m³ was breached at the both monitor locations on the 8th and 14th December, as follows:

Date	Claremont	Turrabaa
8 th December 2009	114 µg/m ³	86 µg/m ³
14 th December 2009	58 µg/m ³	53 µg/m ³

Review of other PM₁₀ units operated by Whitehaven confirmed a general spike in PM₁₀ concentrations on these days and coincided with bushfires in the region producing significant smoke haze. It is also noteworthy that the PM₁₀ unit in Tamworth operated by DECCW experienced an increase in PM₁₀ over the period 8th – 14th December with PM₁₀ levels ranging from 24 µg/m³ to 325 µg/m³, which indicates general regional conditions were responsible for the higher concentrations recorded at the “Claremont” and “Turrabaa” monitors. Advice has been issued to both DECCW and DoP pertaining to the elevated PM₁₀ levels on these dates.

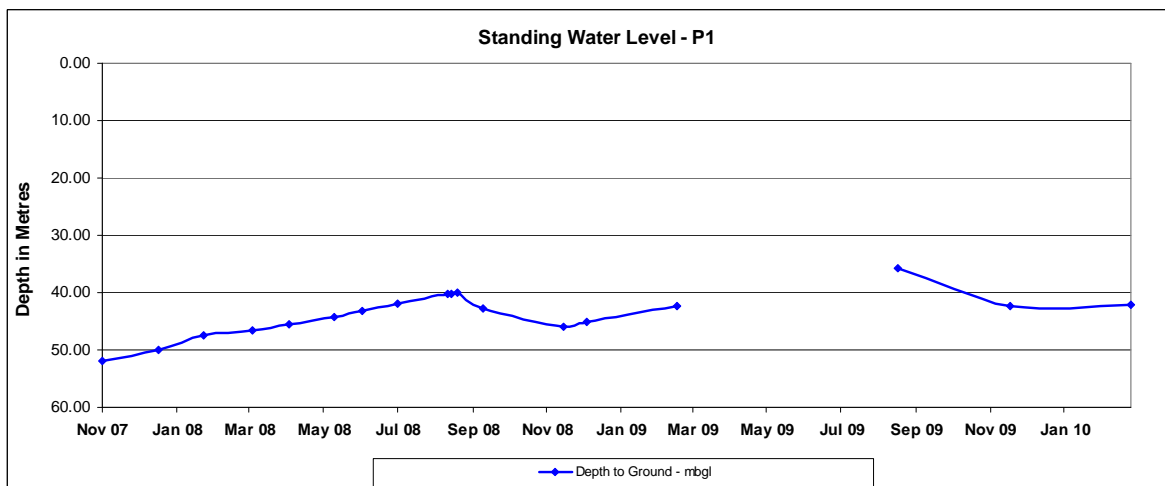
The highest reading from the “Claremont” sampler is now 114 µg/m³, as measured on 8th December 2009. The highest reading from the “Turrabaa” sampler to date also occurred on the 8th December 2009 (86 µg/m³).

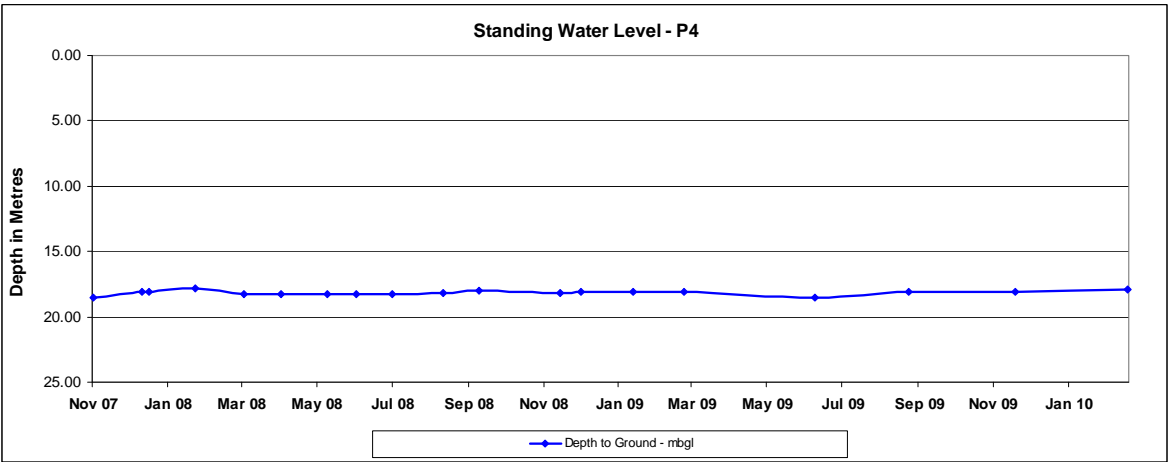
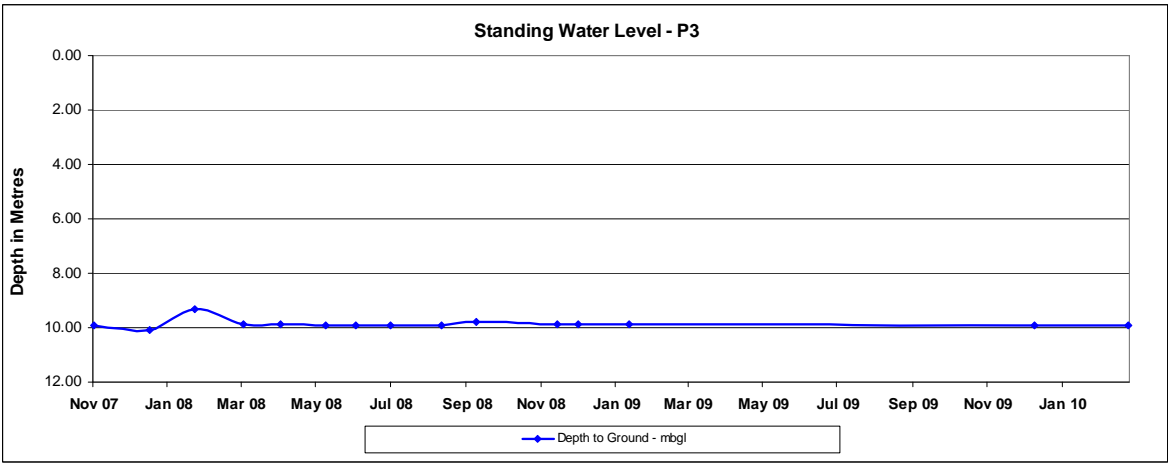
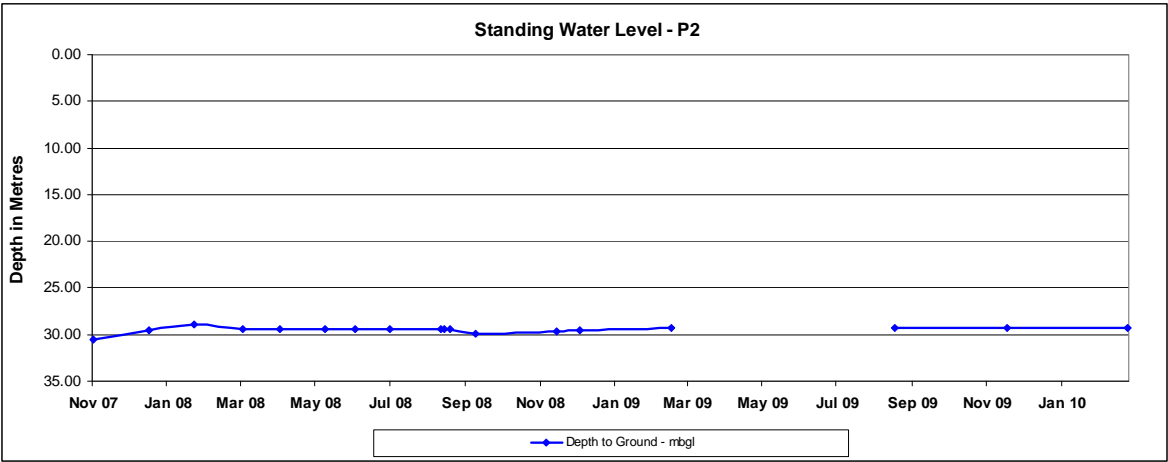


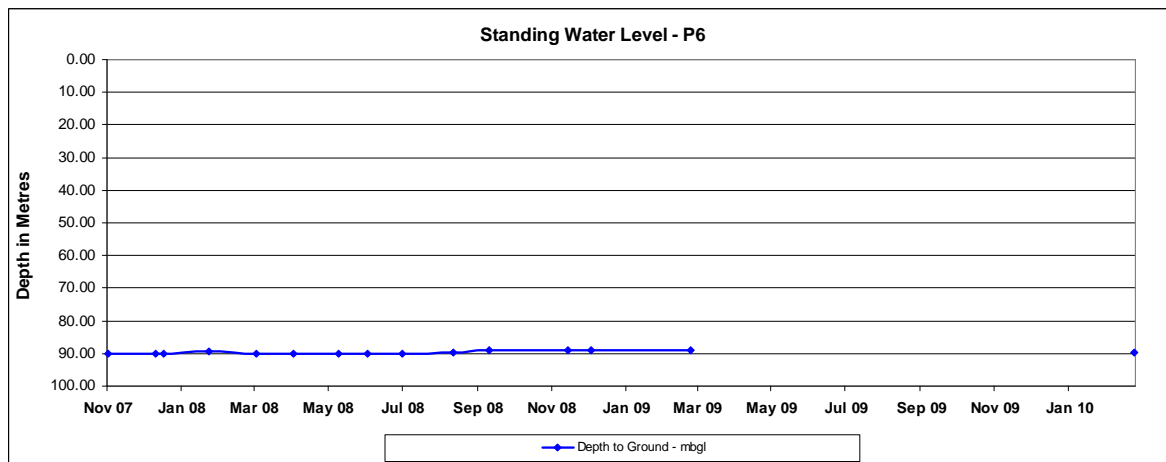
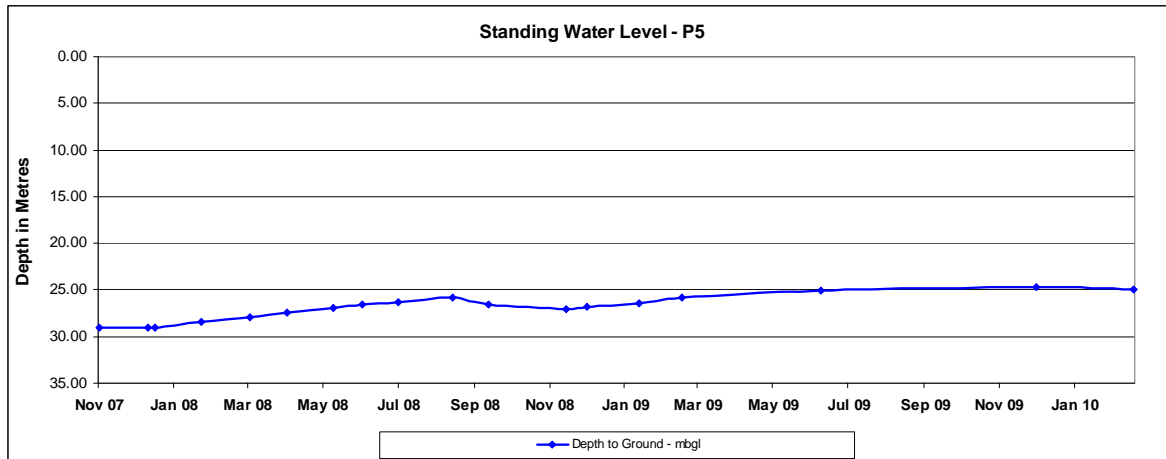


Groundwater Monitoring

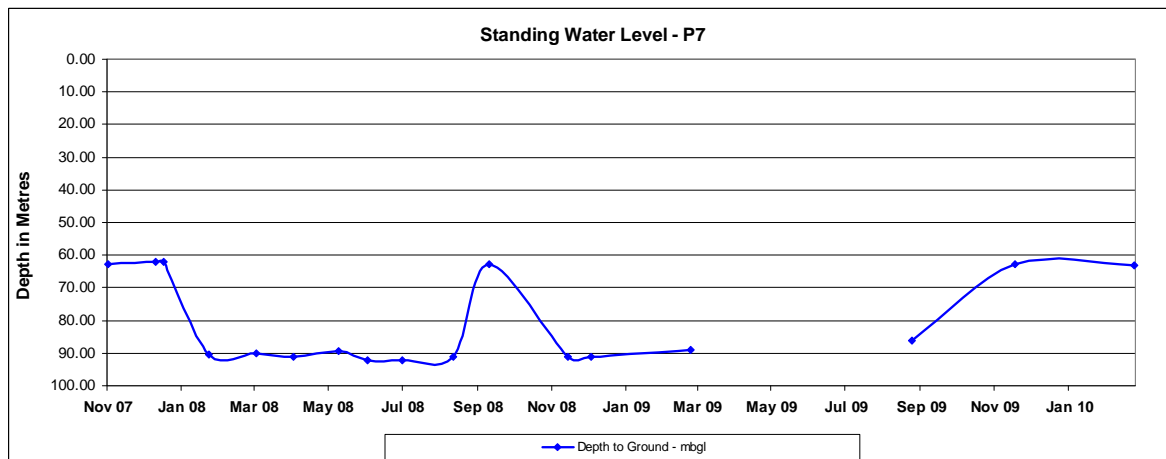
The most recent groundwater monitoring event was conducted in February 2010 (Standing Water Level only). Recorded Standing Water Levels to date are provided below.



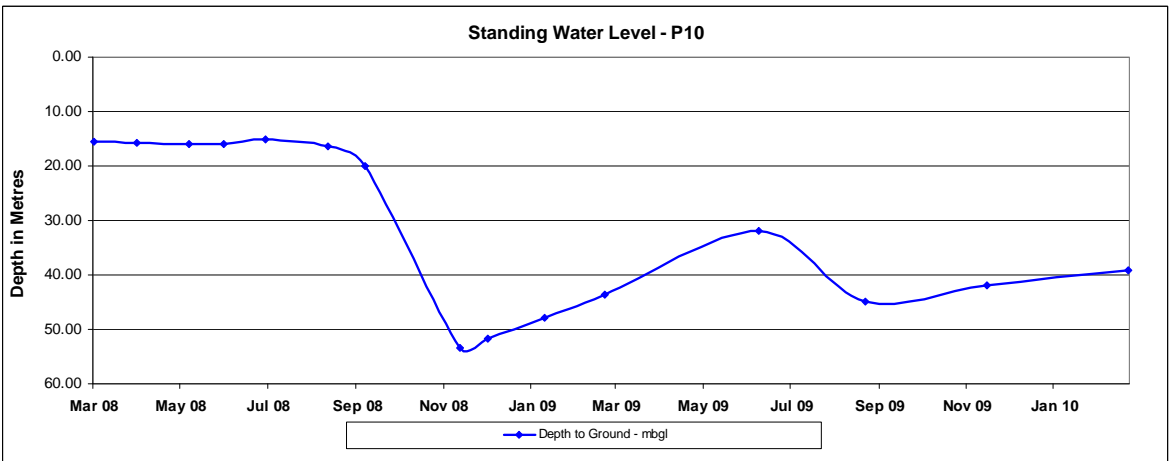
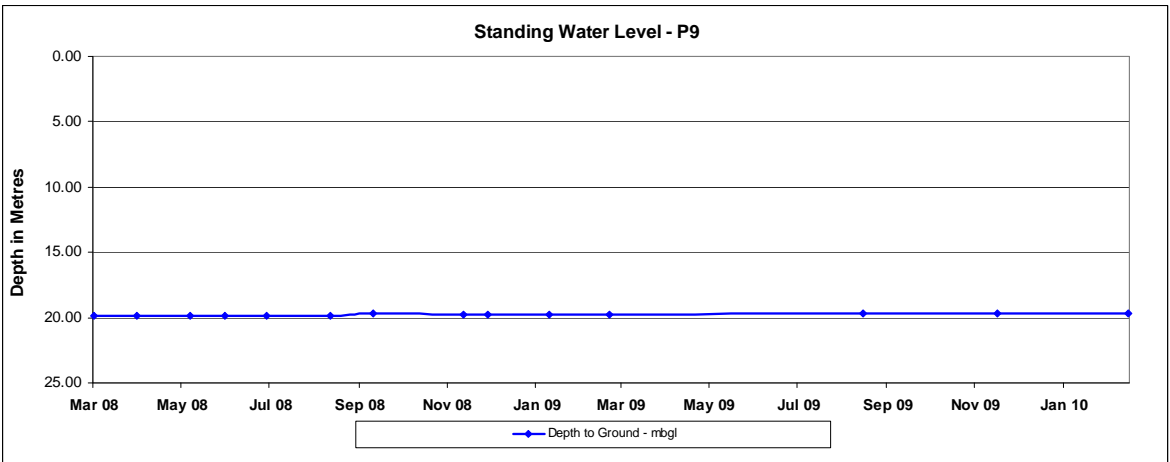
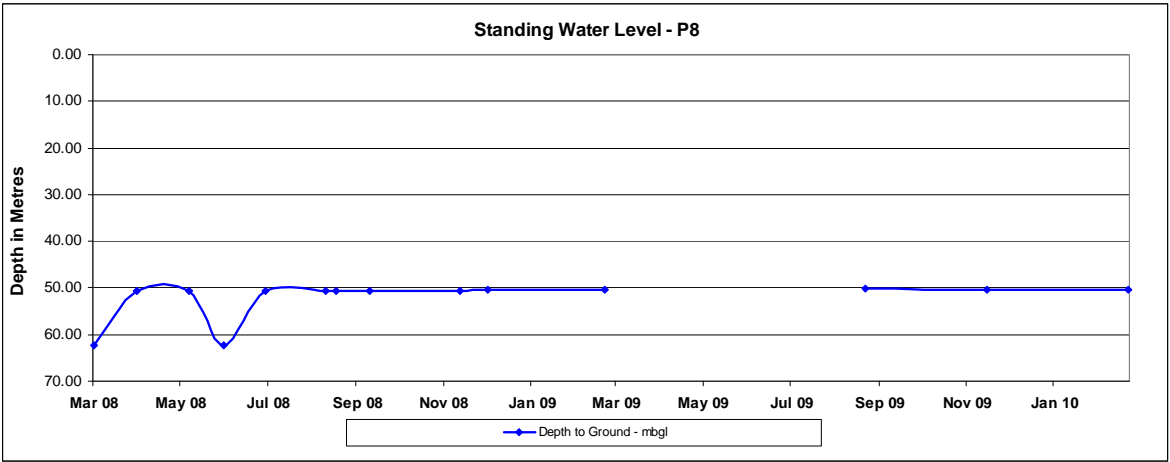


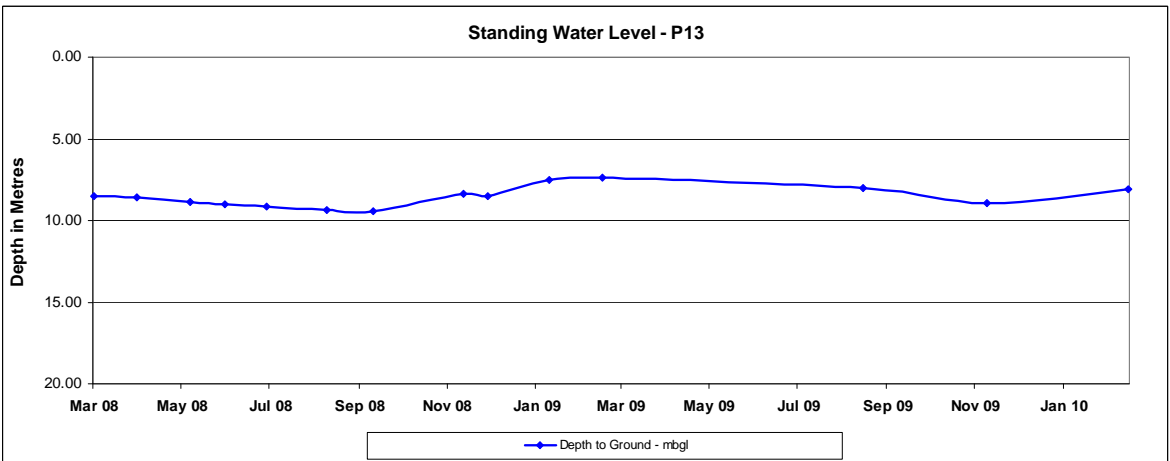
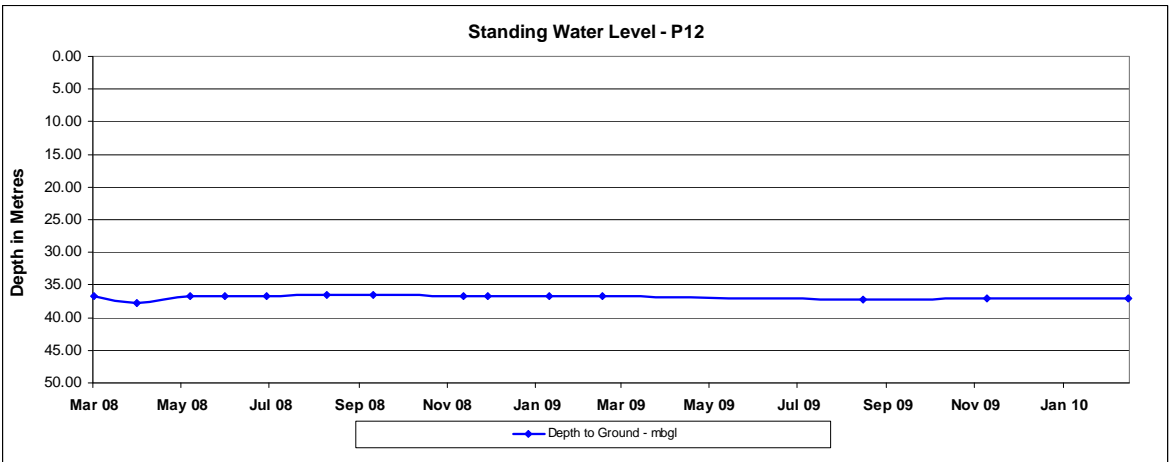
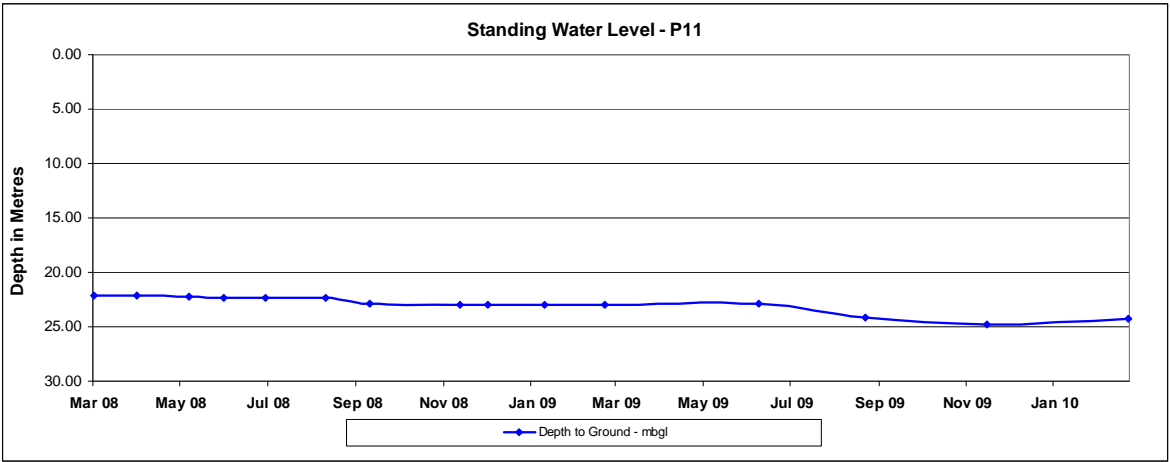


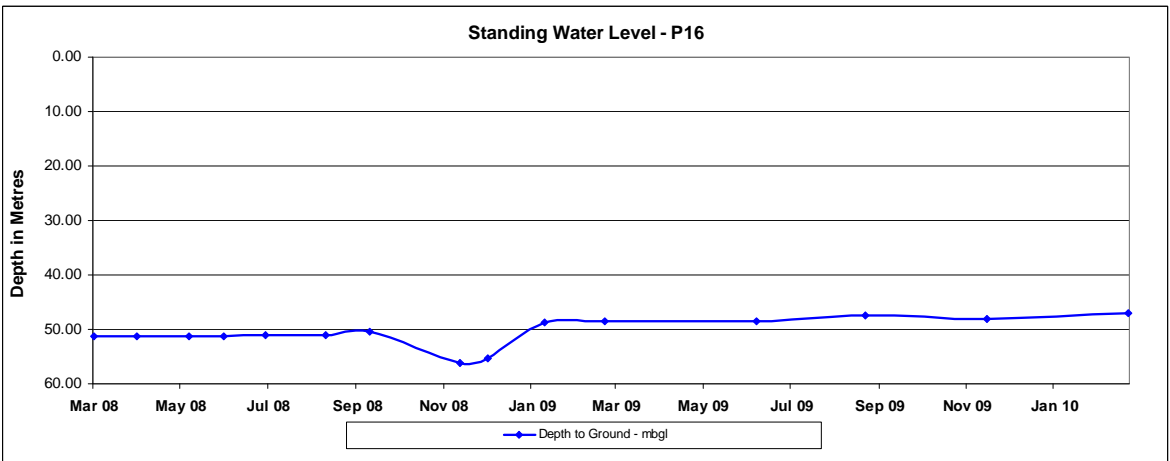
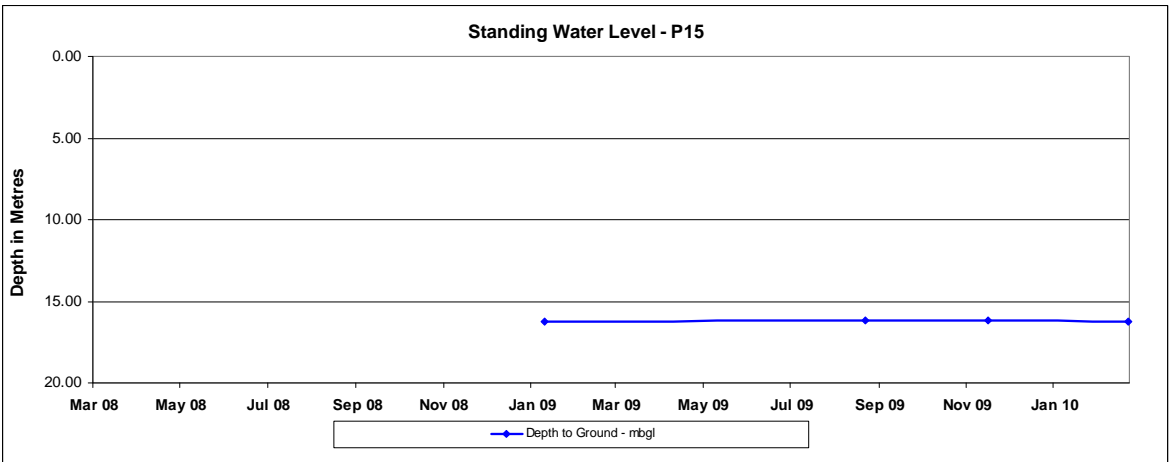
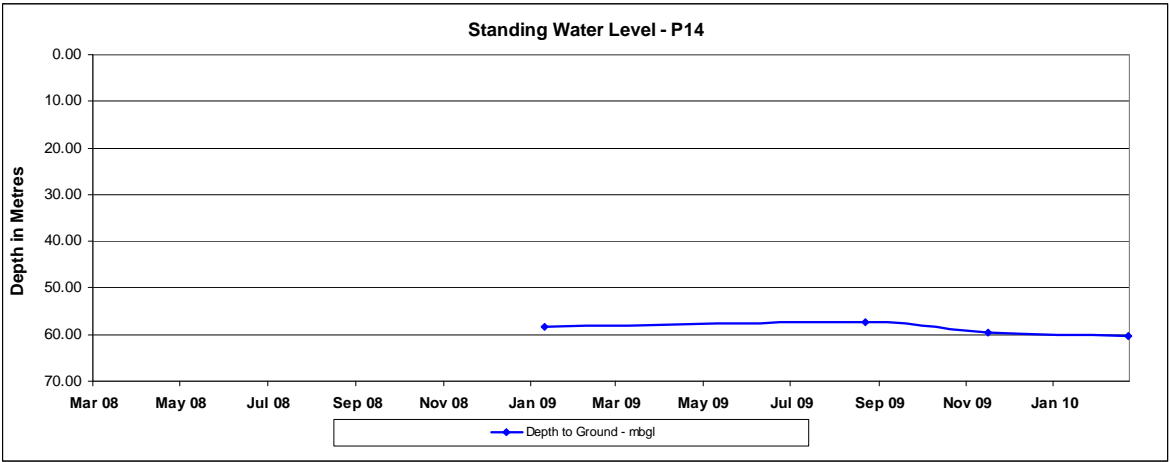
* P6 dry – Aug 09 and Nov 09

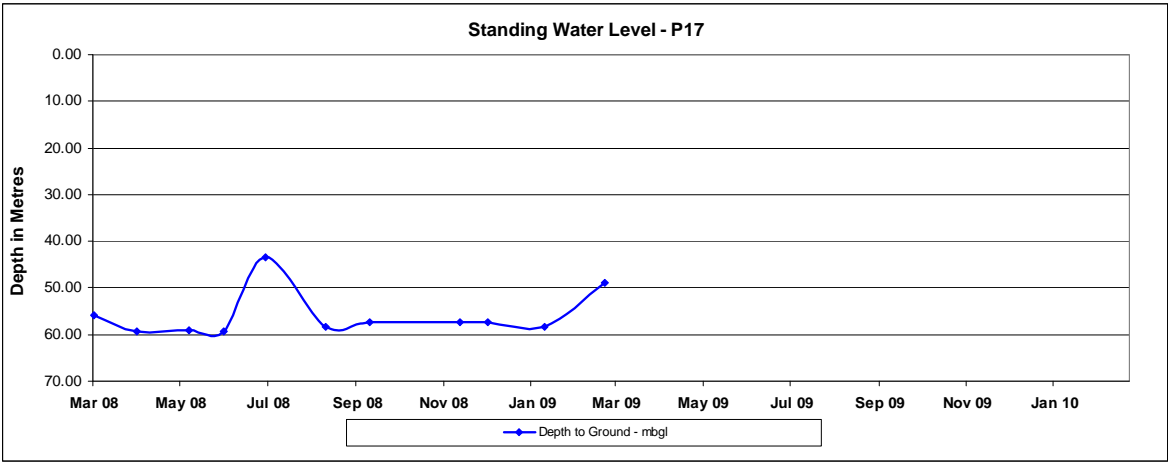


* P7 dry – June 09

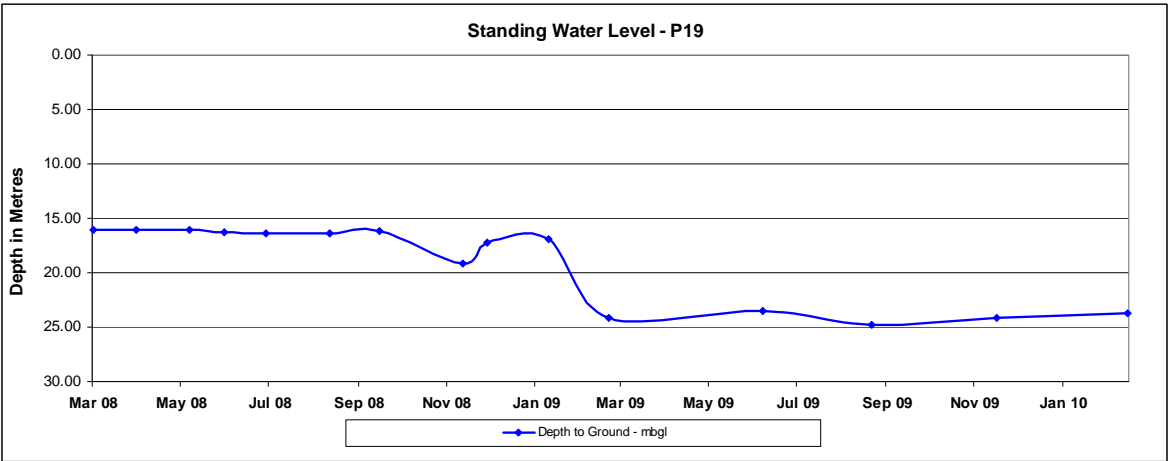
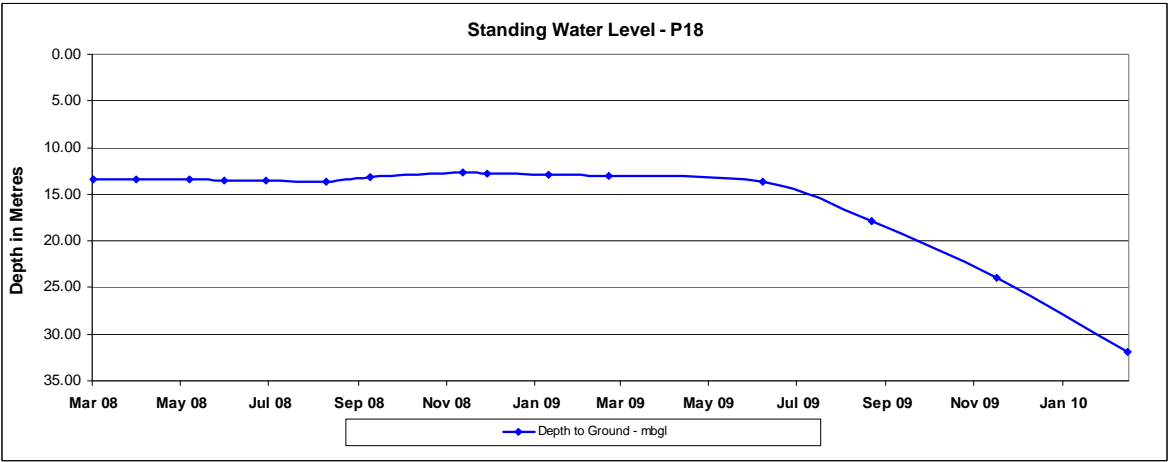


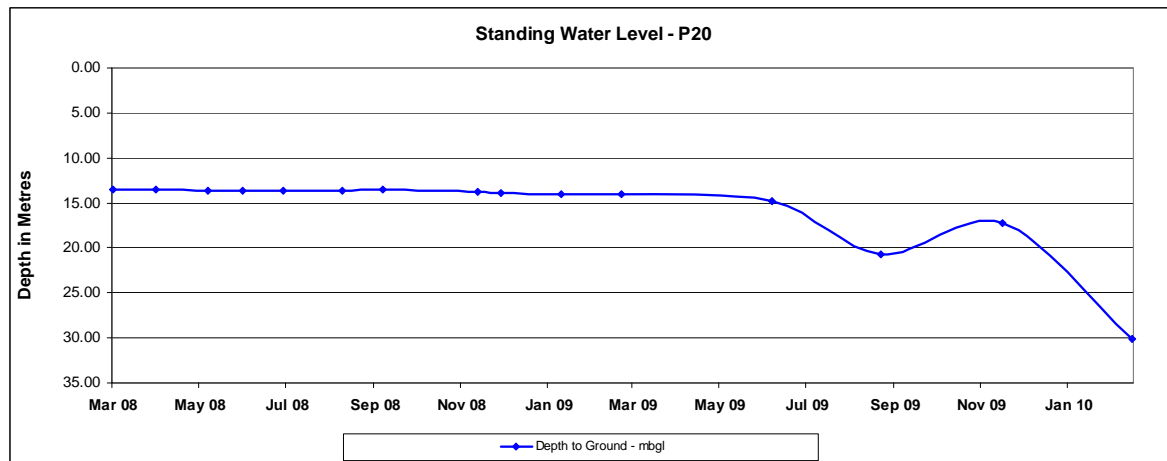






* P17 dry – June 09, Aug 09, Nov 09 and Feb 10





In general, groundwater levels have remained relatively constant since the last meeting with the exception of P18 and P20. These piezometers are located approximately 1.5km north-east of the surface facilities and the drop in SWL is likely associated with water extraction from the coal seam.

Surface Water Monitoring

One wet weather discharge occurred in January 2010 after significant rainfall. The discharge water was sampled and analysis confirmed compliance with the EPL concentration criteria.

Complaints

No complaints have been lodged on the complaints line since the previous meeting. A complaint was lodged directly with the Project Manager, Ben Bomford, who advised the Environmental Manager. Details of the complaint and follow up action are as follows:

9th February 2010

Complainant noted that a screeching noise was coming from mine site between 6am and 7am.

The complainant was advised that the matter would be investigated to identify the noise sources. Subsequent discussions between staff identified that no surface activities (including drilling) were being conducted at the time to be creating such a noise.

Rehabilitation

Additional rehabilitation works since the previous meeting have comprised planting of tubestock in and around the bund to improve the visual aspect from the southern side of the site.

Community Consultative Committee Meeting Minutes

Meeting No: 9

Date: 1 June 2010

Time: 4.00pm

Location: Narrabri Coal Operations Site Office

Present: Terry Miller - Chairman

Sally Hunter

James Stieger

Peter Webb

Mark Foster

Clr Ken Bates

Clr Les Knox

Greig Duncan (Narrabri Coal Operations General Manager)

Kellie Maslen (Site Clerk)

Jill Scealy (Whitehaven Environmental Officer)

Danny Young (Whitehaven Environmental Manager)

1.0 Apologies

Clr Lester Kelly

2.0 Previous Minutes

Moved Clr Les Knox, James Stieger.

2.1 Business Arising from Previous Minutes

Open day postponed until the first week of December when the Longwall will be assembled on the surface and continuous miners will be operating underground.

3.0 General Business

3.1 Construction Progress Report

Kamilaroi Highway Upgrade	Complete
Earthworks and Rehabilitation	Complete
Site access & Kurrajong Creek Road	Complete
Industrial Complex	Complete
Ventilation Fans	Complete
66kv Transmission Line	Complete
Rail Loop	Complete
Sewerage Treatment Plant	Complete
Mine Entry	Complete
Boxcut	Complete
High and Low Voltage Works	Complete
Drift Construction	96% Complete
Mining Equipment Delivery	90% Complete
Drift & Skyline Conveyors	Complete
Coal Processing Plant	99% Complete
Train Loadout	99% Complete

Stage 2 Civil works (covered under the approved Section 75W modification to Stage 1) have commenced with works on the shaft site pad and access road underway.

Stage 2 approval still with Department of Planning (DoP). Approval with Draft Consent Conditions expected in coming weeks with final approval expected Mid June. Hold up relates to Biodiversity Offset arrangements with DoP and Department of Environment, Climate Change and Water (DECCW) holding different views on requirements. Details on three properties, which were assessed by Whitehaven as potential offset areas, have been submitted to the DoP and DECCW for advice on preferred option.

Drilling operations for gas drainage requirements are continuing onsite, with upgrades to the gas plant also being made in order to reach gas compliance levels. The program of gas drainage will continue for a number of years in advance of each panel. Gas levels currently being experienced are in line with initial predictions. The drilling program for gas drainage has been increased to operate the rig 24/7 due to the requirement to improve efficiency of gas drainage to achieve gas compliance in advance of mining. The move to 24/7 drilling for gas drainage was undertaken only after sound power testing of the drill rig to confirm the sound power levels included in the noise model were appropriate. The testing confirmed the gas drainage rig as being of a lower sound power level to that included in the model and therefore well within noise compliance limits. This will be confirmed through ongoing monitoring, including the use of real time noise monitoring at the most affected residences from mine related noise.

3.2 Environmental Overview

As per provided report.

4.0 Complaints and Complaints Hotline

As per provided report

5.0 New Business

Sally Hunter requested assistance in finding a polocrosse field for the Galloping Gully Polocrosse Club. Danny Young advised the request be put in writing.

Terry Miller asked about the affect of the Governments Super Tax. Greig Duncan advised that operations will continue as planned and the Super Tax will be dealt with in due course if it is implemented.

James Steiger asked about the rail wagons. A total of 86 wagons will be delivered to site within the next 6 – 8 weeks. Whitehaven will own the train and wagons and they will be operated by Pacific National on our behalf. Carriages will not be covered at this stage. It is understood DECCW is reviewing dust impacts from rail wagons as a review of the ARTC's Environmental Protection Licence and will await outcomes of this review prior to any additional consideration to this matter.

Terry Miller suggested that an environmental monitoring station be erected in Baan Baa as a central location for mines to compare findings. Danny Young indicated that mine related results are compared with baseline information already, ie. DECCW PM₁₀ at Tamworth, but would consider this suggestion in consultation with the relevant agencies.



Narrabri Coal Operations Pty Ltd

ACN 129 850 139
ABN 15 129 850 139

Terry Miller questioned whether meetings need to continue on a quarterly basis now that construction is almost complete. Danny Young indicated that the Consent requires quarterly meetings and that the frequency of meetings may be adjusted if the committee deems necessary by writing to the Department requesting alternative requirements.

6.0 Next Meeting

Tuesday 7 September 2010, 4pm, Site Office
Meeting closed 4.40pm

Narrabri Coal Project Community Consultative Committee Meeting #9

Environmental Monitoring Report February 2010 – April 2010

Noise Monitoring

Attended noise monitoring was undertaken on the 26th March 2010 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 26 March 2010 (Day)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	4:18 pm	36.6	<1 m/s SE	Traffic (35), Insects (29), NCM inaudible
Naroo	2:48 pm	40.7	Calm	Birds (39), Traffic (35), NCM inaudible
Claremont*	3:07 pm	31.3	Calm	Plane (28), Insects (27), NCM inaudible
Westhaven	3:26 pm	33.5	Calm	Birds (31), Insects (29), NCM inaudible
Greylands	3:46 pm	39.3	Calm	Local car (35), Birds (34), NCM (30) [#]

* Correction of 4-8dB to be subtracted from the *mine noise component only* to estimate levels at "Kurrajong".

[#] Distant drill rig.

Noise Monitoring Results – 26 March 2010 (Evening)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:20 pm	46.9	Calm	Traffic (46), Insects (36), NCM inaudible
Naroo	8:37 pm	44.7	Calm	Traffic (44), Insects (37), NCM inaudible
Claremont*	8:55 pm	51.5	Calm	Insects (51), NCM (22) [#]
Westhaven	9:18 pm	38.0	Calm	Insects (38), NCM (19) [#]
Greylands	9:36 pm	38.8	Calm	Insects (35), Dog (35), NCM inaudible

* Correction of 4-8dB to be subtracted from the *mine noise component only* to estimate levels at "Kurrajong".

[#] Distant drill rig.

Noise Monitoring Results – 26 March 2010 (Night)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	11:24 pm	44.1	Calm	Traffic (44), Insects (25), NCM inaudible
Naroo	11:04 pm	46.1	Calm	Traffic (44), Insects (35), NCM (26) [#]
Claremont*	10:43 pm	44.1	Calm	Insects (44), NCM (27) [#]
Westhaven	10:21 pm	41.6	Calm	Insects (41), NCM inaudible
Greylands	10:01 pm	36.4	Calm	Insects (34), Traffic (28), NCM (19) [#]

* Correction of 4-8dB to be subtracted from the *mine noise component only* to estimate levels at "Kurrajong".

[#] Distant drill rig.

The results indicate that noise emissions from the mine were below the criterion of 35 dB(A), $L_{eq(15min)}$ at all receivers.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) $L_1 (1 \text{ min})$ 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 measurement circuit the $L_1 (1 \text{ min})$ noise from the mine did not exceed 45 dB(A) at any monitoring location.

Unattended noise monitoring was also undertaken in March 2010, as required under the consent. Noise logs have been provided to Narrabri Coal from the consultant as part of the background noise collation. This data does not distinguish between mine and other noise sources and as such the data is not presented in this report. It is anticipated that following the first 12 months of mining from the project site, the requirement for ongoing unattended noise monitoring will be removed.

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont
May 2009	1.1	0.8	7.5	4.1	5.3	2.6	5.8	2.4
June 2009	0.4	0.5	4.0	3.7	4.9	1.5	3.0	2.2
July 2009	0.9	0.4	3.2	0.8	7.9	0.7	1.9	1.6
August 2009	64.4	2.2	6.2	1.5	1.6	2.3	1.5	1.4
September 2009	18.9	20.5	18.1	23.6	12.9	14.3	12.6	19.1
October 2009	8.3	4.2	4.8	2.7	2.7	0.9	2.7	4.1
November 2009	7.0	1.9	1.5	2.2	1.9	1.9	2.8	1.5
December 2009	15.4	10.3	2.3	3.1	1.9	1.9	1.7	1.8
January 2010	10.7	3.8	1.4	11.0	1.6	5.4	1.5	5.0
February 2010	5.2	1.3	1.2	2.9	1.6	2.3	0.9	2.0
March 2010	1.3	1.5	1.0	26.3	2.9	4.3	5.2	2.6
April 2010	1.4	1.0	1.4	36.1	1.4	0.8	4.5	2.1
Annual Average	11.3	4.0	4.4	9.8	3.9	3.2	3.7	3.8

Deposited dust results have remained at relatively low levels since the last meeting with the exception ND4 (Matoppo). These elevated results are believed to be associated with contamination issues (plant material, insects, bird droppings) rather than mining operations. The April 2010 laboratory report noted that farming activity was occurring at the time of sample collection at ND4.

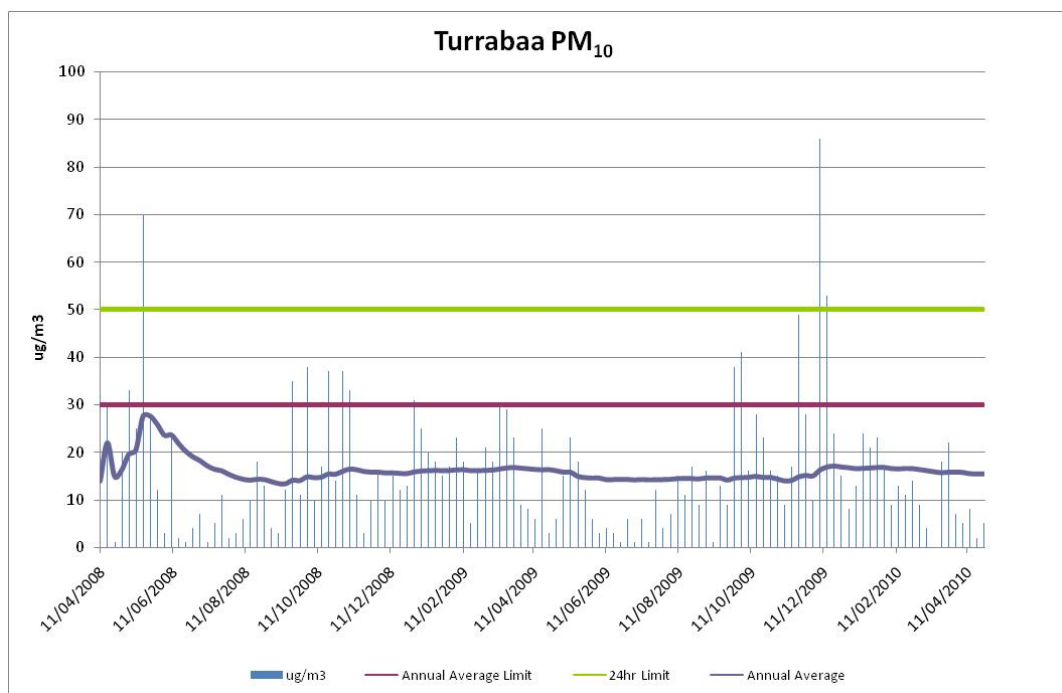
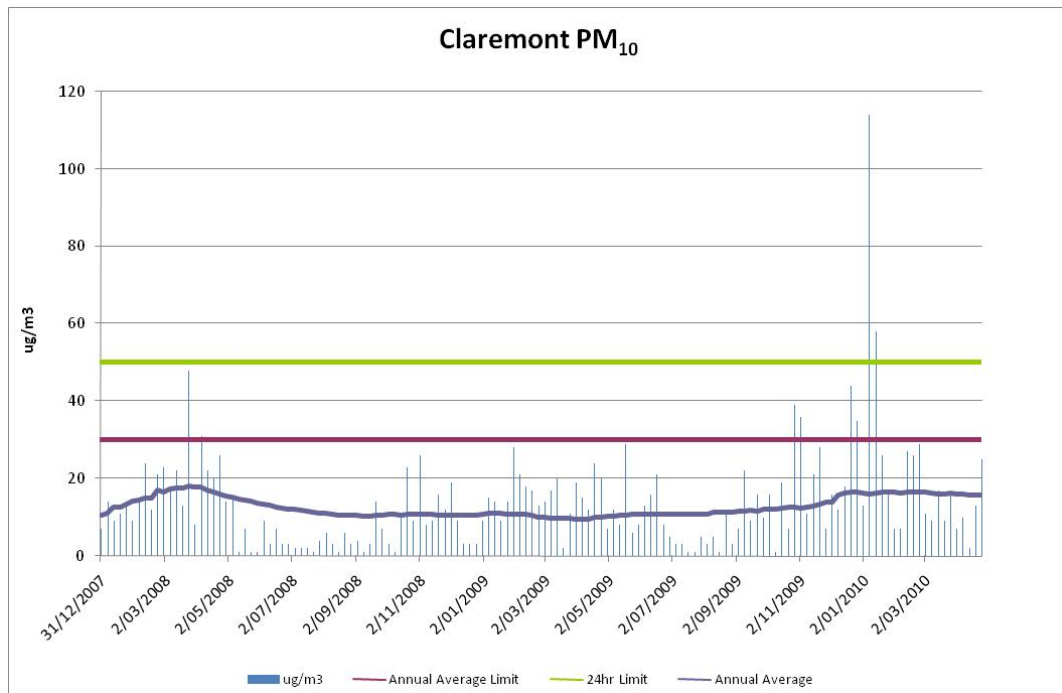
Only 3 sites (ND1, ND3 and ND4) currently have an annual average that exceeds the annual average criteria of 4 g/m²/month, compared to 6 sites at the last meeting.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the “Claremont” High Volume Air Sampler is returning a running annual average of 15.90 µg/m³ which is well below the annual average limit of 30 µg/m³.

PM₁₀ measurements taken to date for the “Turrabaa” High Volume Air Sampler is returning a running annual average of 15.49 µg/m³ which is also well below the annual average limit of 30 µg/m³.

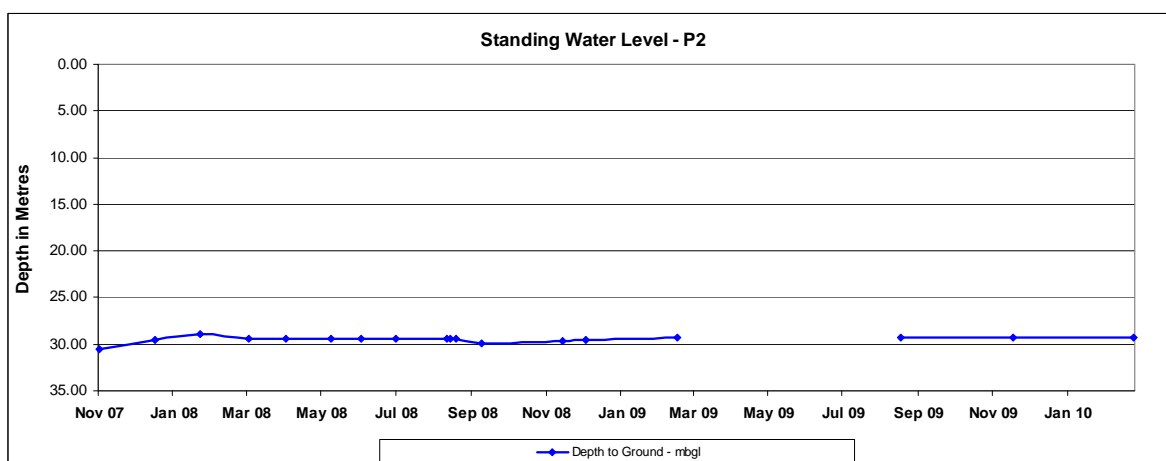
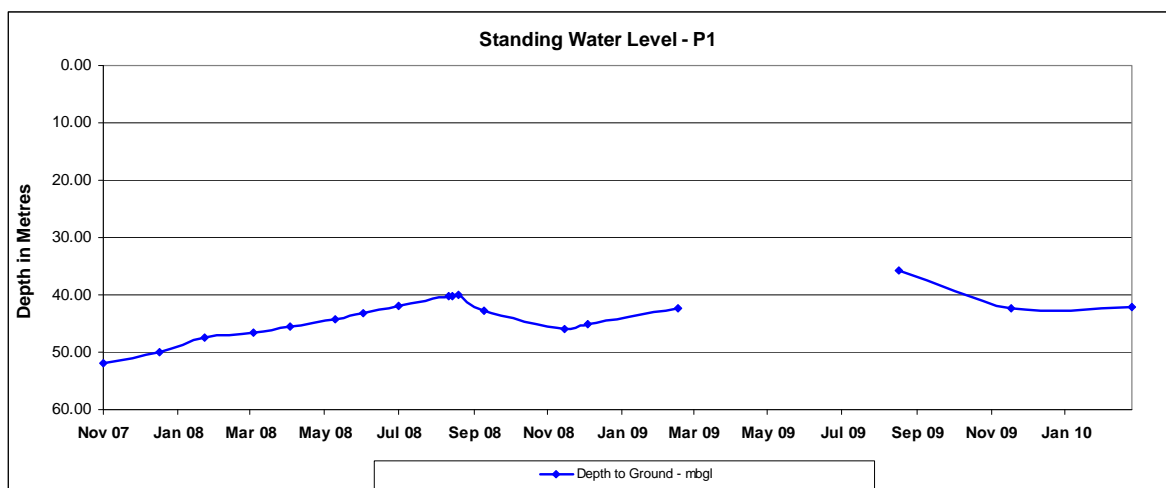
PM₁₀ levels have remained compliant over the past 3 months.

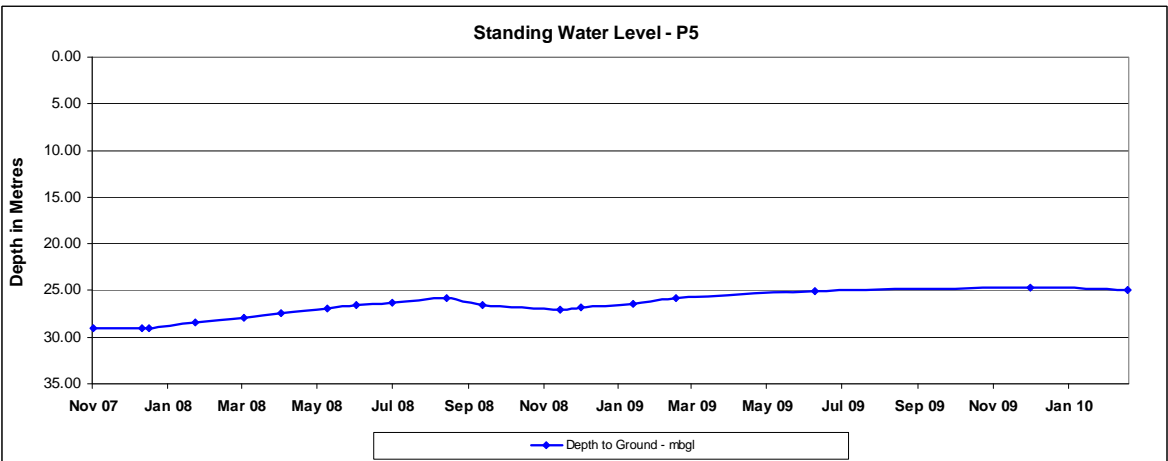
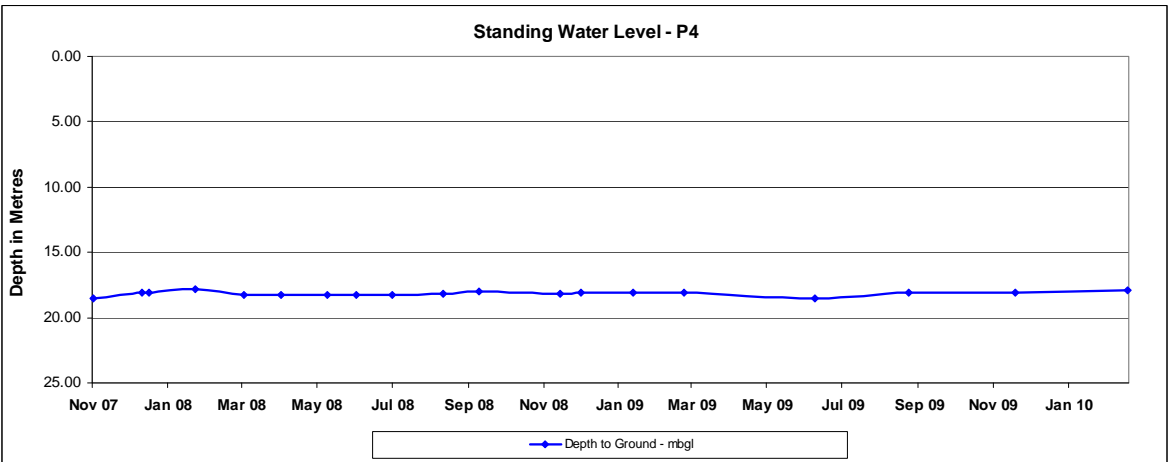
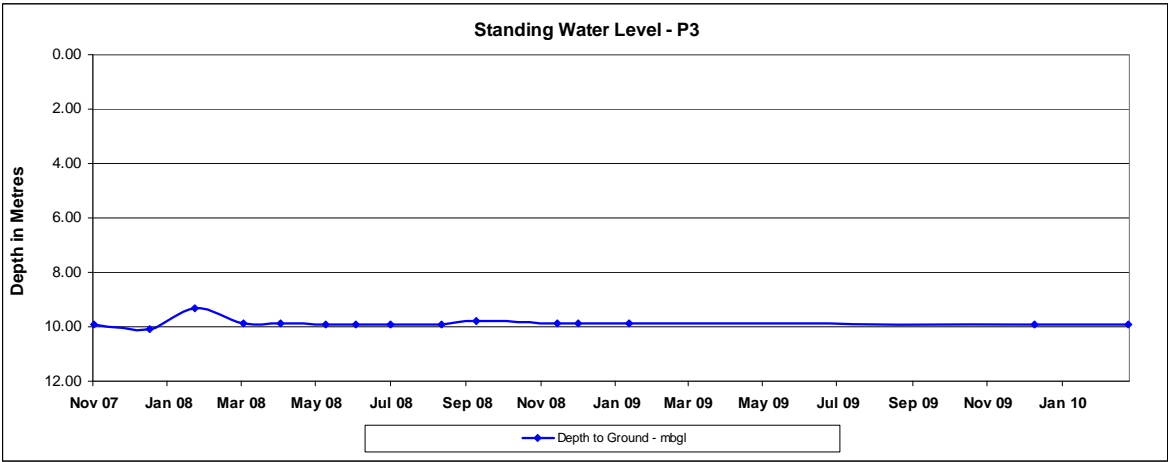


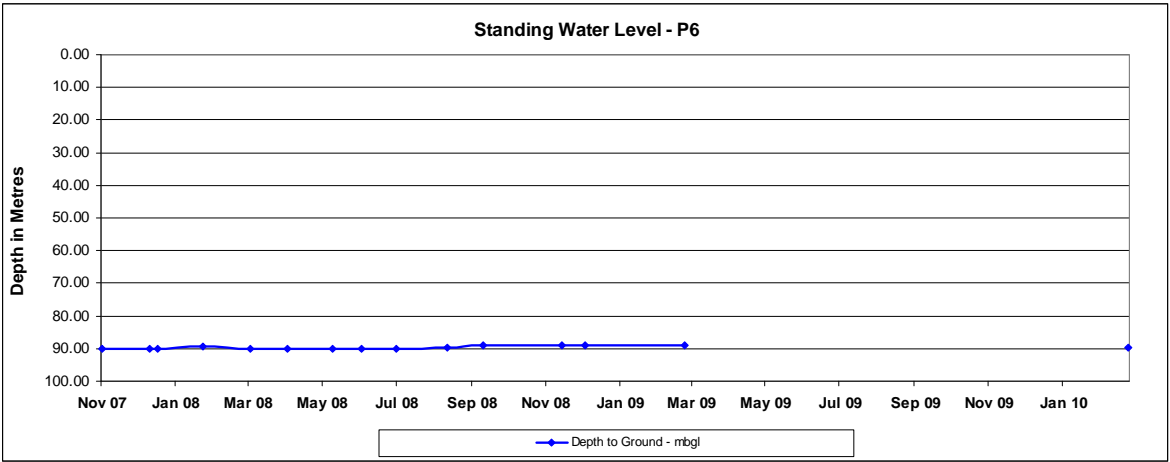
Groundwater Monitoring

Routine groundwater monitoring was scheduled for May 2010 however unforeseen circumstances with field staff as well as the recent wet weather have delayed monitoring. The noticeable drop in SWL at P18 and P20 has triggered more frequent monitoring at these sites. It is expected that the full round of monitoring will be conducted in the coming weeks with SWL results provided at the next CCC meeting.

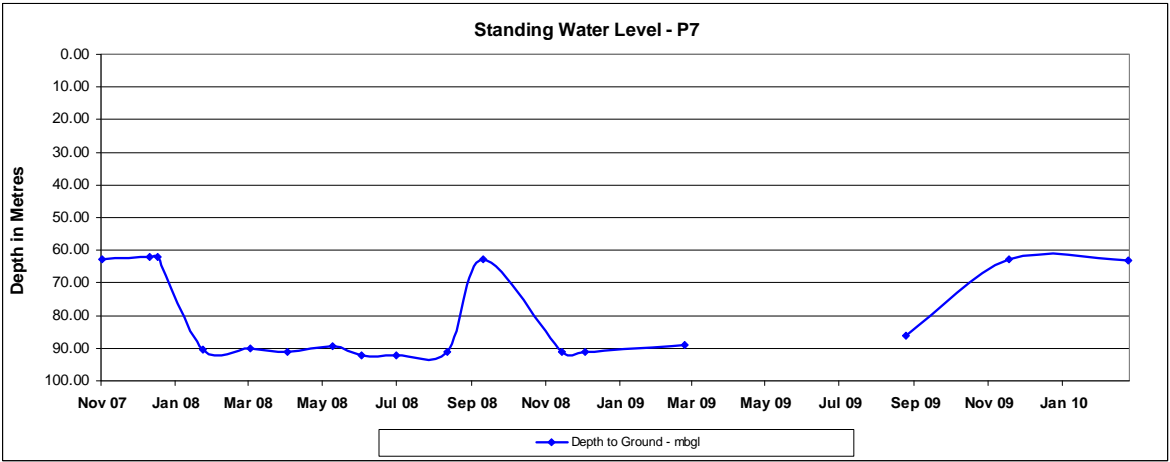
The graphs below show the SWL trends at each site since monitoring commenced. In general, groundwater levels have remained relatively constant over the last 6 months with the exception of P18 and P20. These piezometers are located approximately 1.5km north-east of the surface facilities and the drop in SWL is likely associated with water extraction from the coal seam. The SWL at these two sites has started to plateau slightly in the last couple of months.



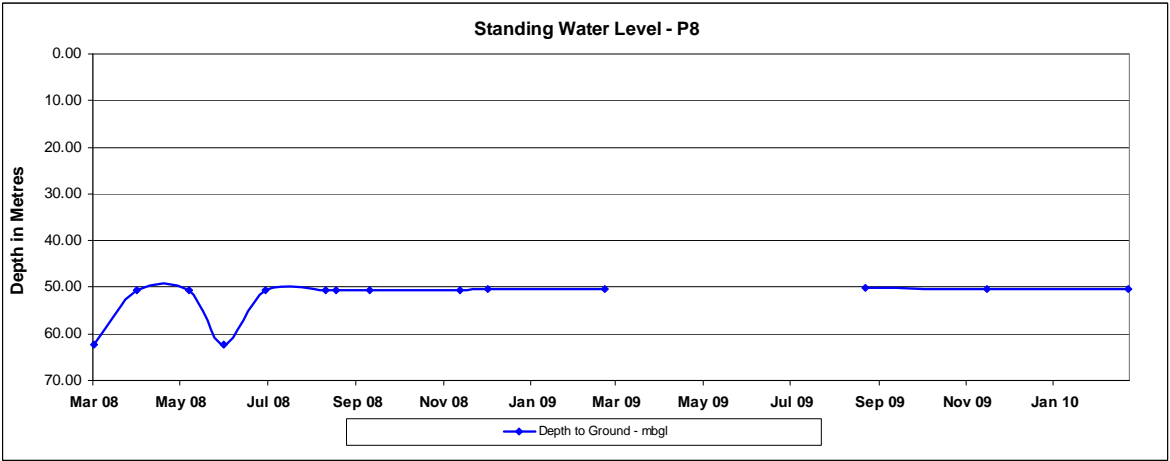


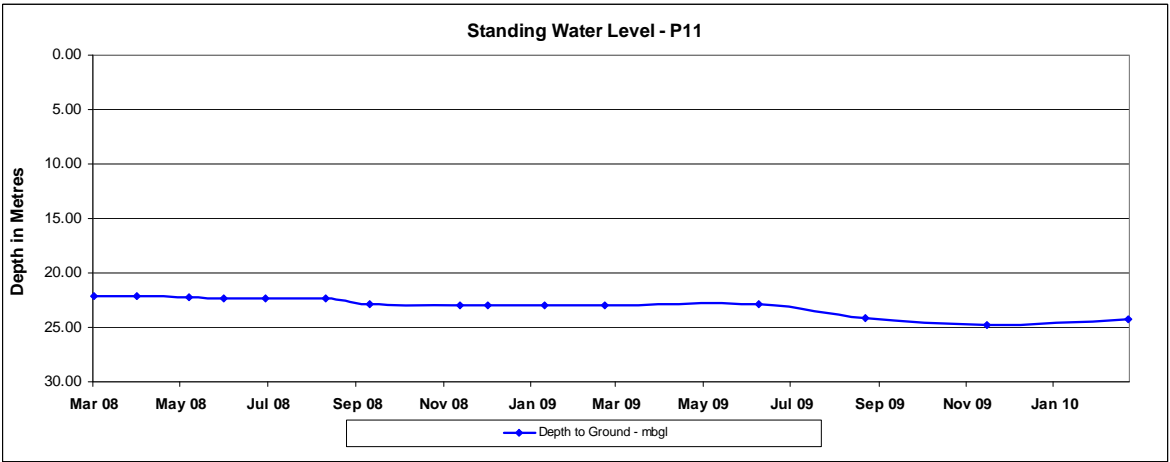
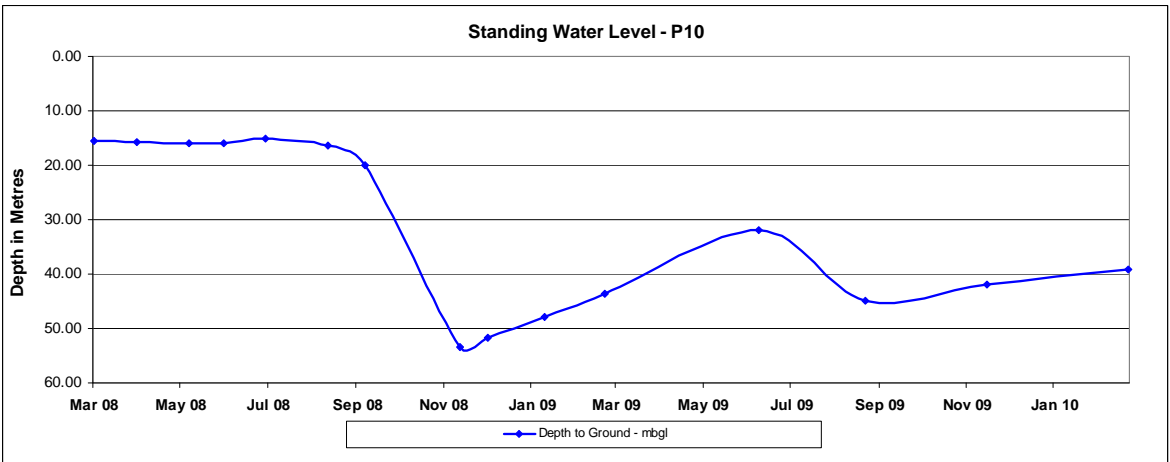
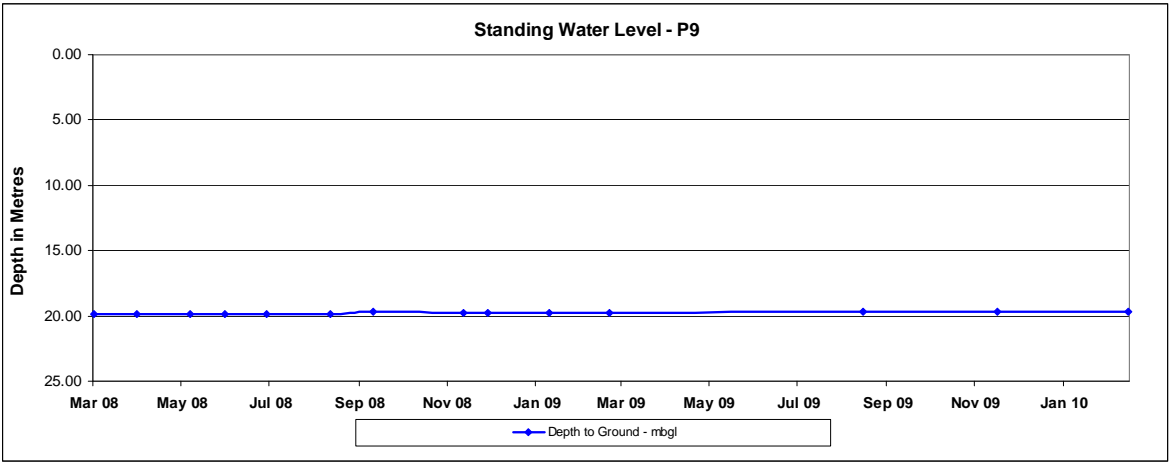


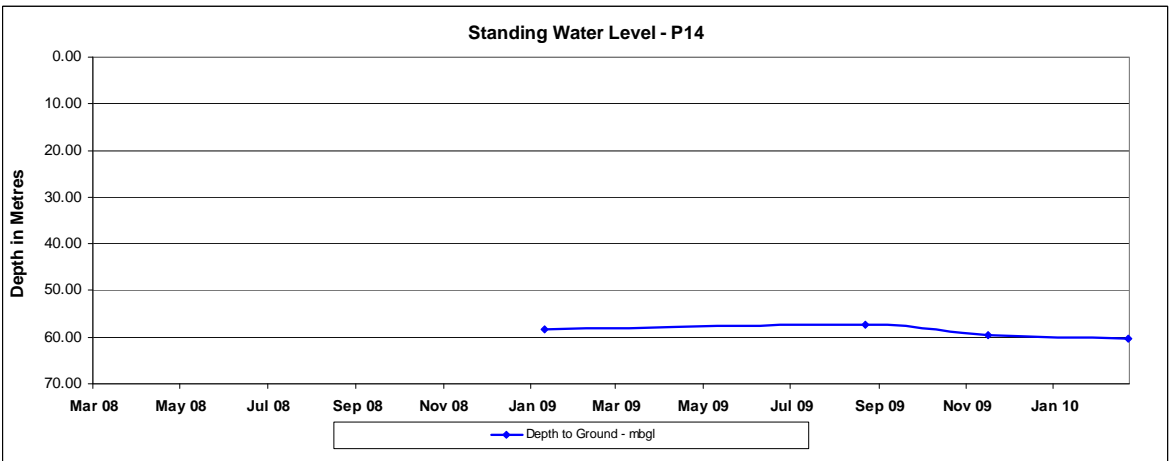
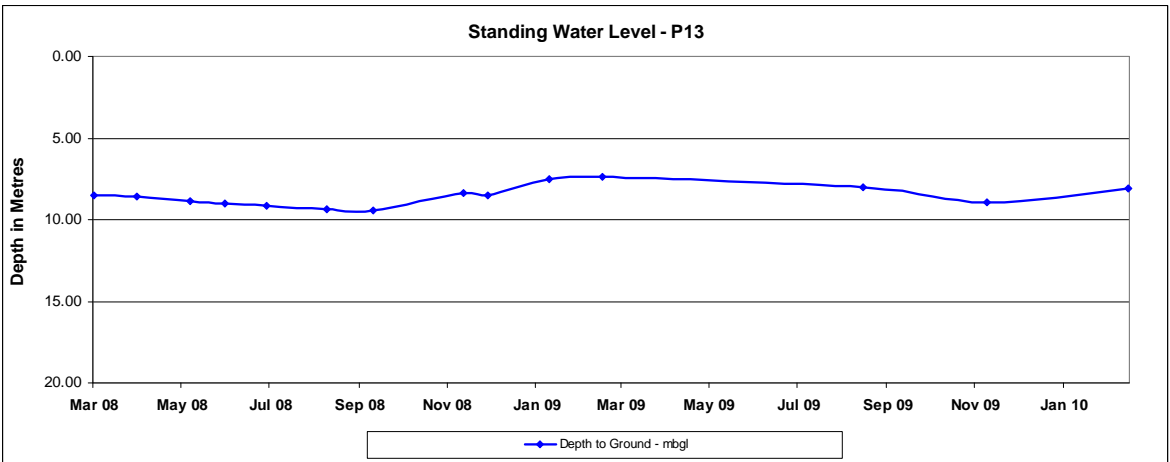
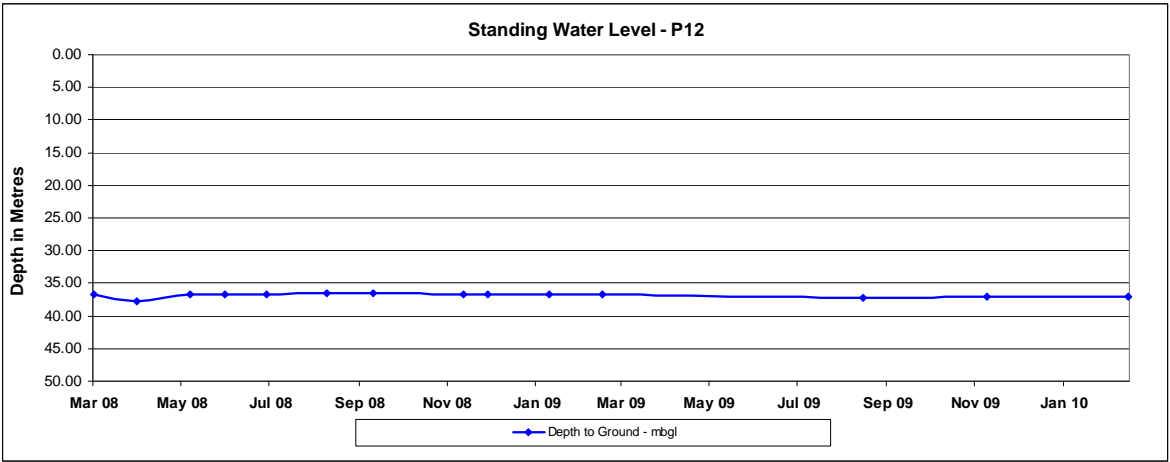
* P6 dry – Aug 09 and Nov 09

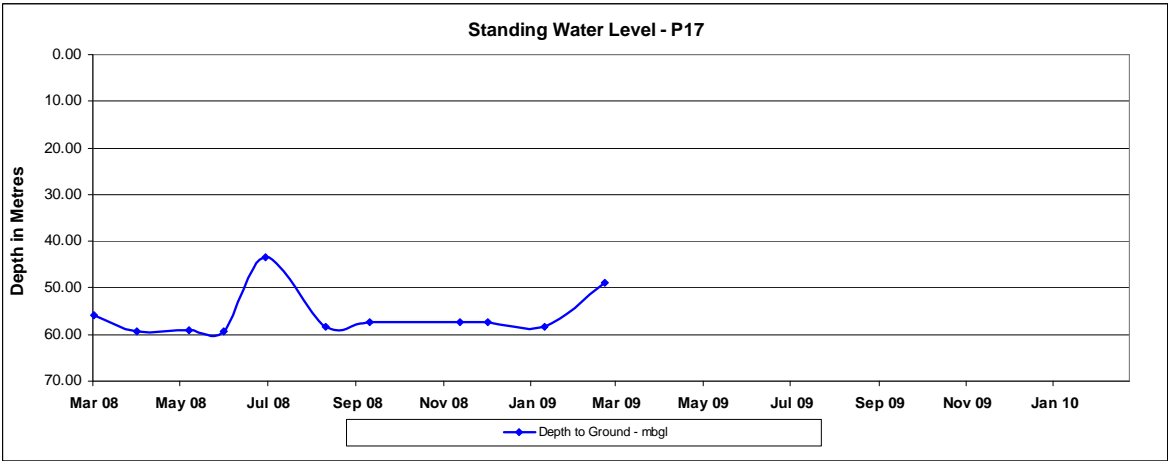
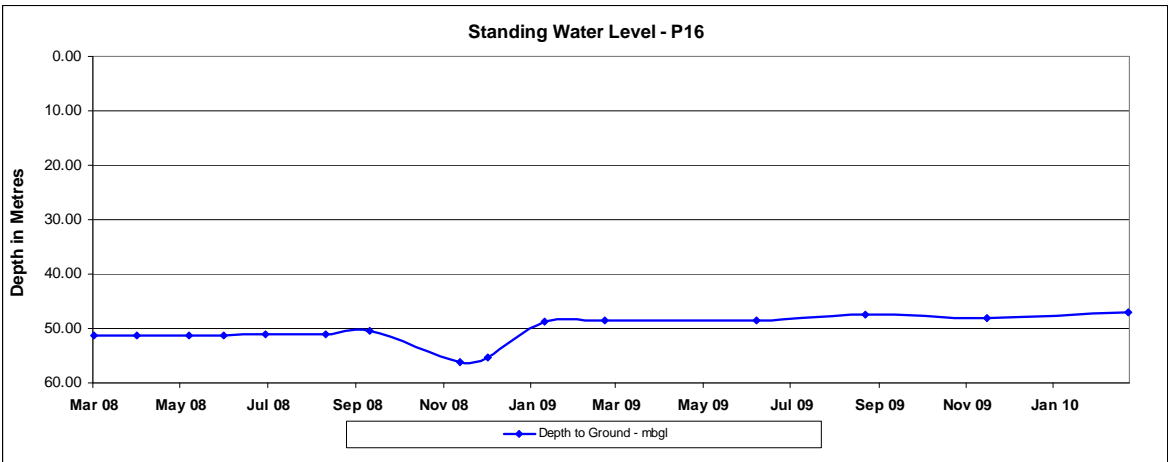
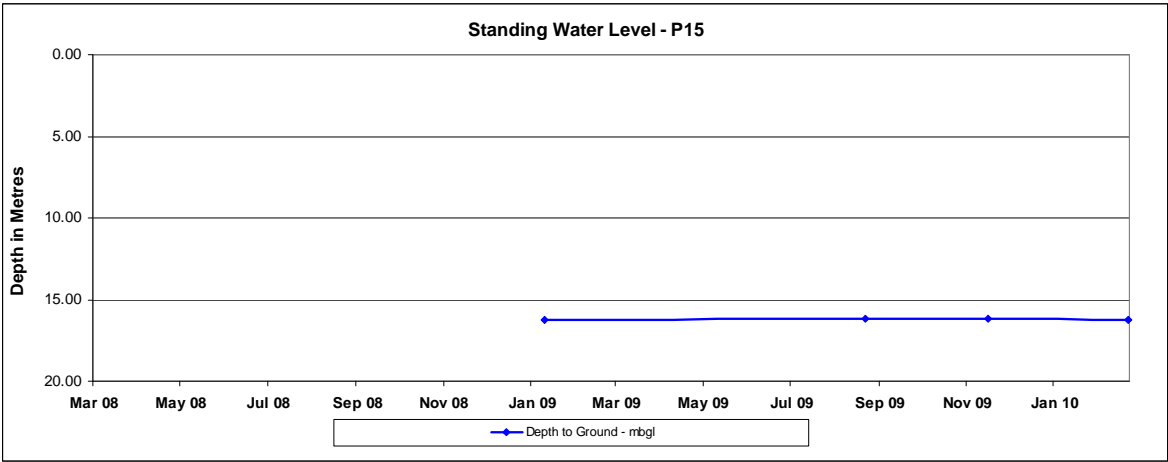


* P7 dry – June 09

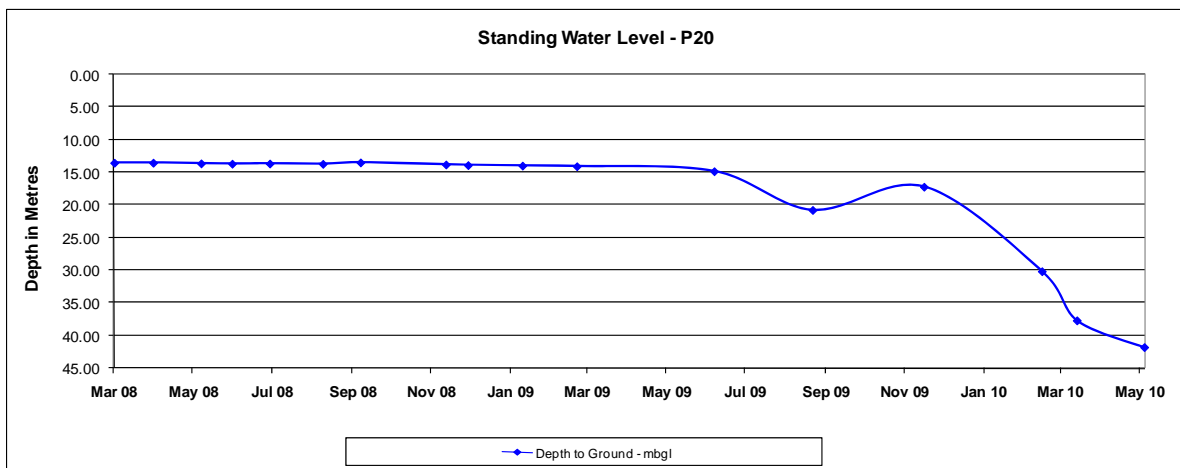
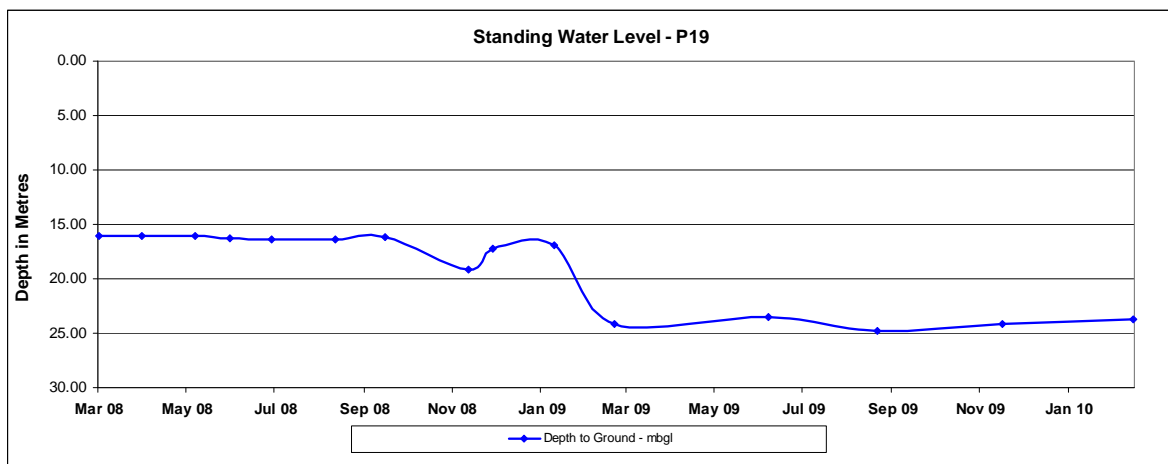
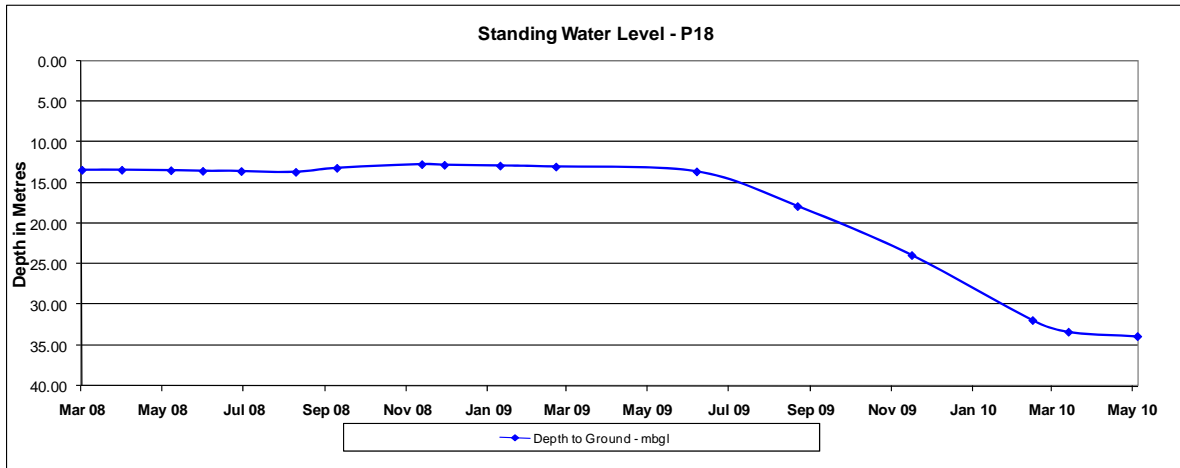








* P17 dry – June 09, Aug 09, Nov 09 and Feb 10



Surface Water Monitoring

No wet weather discharges have occurred during the last 3 months.

Routine monitoring of onsite dams was conducted in March and May 2010 to obtain background water quality data. There was nothing in these results that were indicative of any change in water quality since monitoring commenced.

Complaints

No complaints have been lodged since the last CCC meeting.

Rehabilitation

Additional rehabilitation works since the previous meeting have comprised planting of tubestock in and around the bund to improve the visual aspect from the southern side of the site.



Community Consultative Committee Meeting Minutes

Meeting No: 10

Date: 7 September 2010

Time: 4.00pm

Location: Narrabri Coal Operations Site Office

Present:

Terry Miller - Chairman
James Stieger
Peter Webb
Mark Foster
Clr Ken Bates
Greig Duncan (Narrabri Coal Operations General Manager)
Ben Bomford (Narrabri Coal Operations Project Manager)
Jill Scealy (Whitehaven Environmental Officer)
Kellie Maslen (General Managers Personal Assistant)

1.0 Apologies

Clr Lester Kelly
Clr Les Knox
Sally Hunter
Danny Young

2.0 Previous Minutes

Moved James Stieger, Mark Foster

2.1 Business Arising from Previous Minutes

- 2.1.1 Open day postponed further due to delays with the longwall in Germany, possibly April/May 2011
- 2.1.2 Stage 2 approval received 26/7/2010. Copies provided to members at the meeting and members advised that the approval is also available on the Whitehaven website.
- 2.1.3 No suitable land available for lease to the Galloping Gully Polocrosse Club at this time.
- 2.1.4 Possible environmental monitoring station for Baan Baa – raised at recent Annual Environmental Management Report (AEMR) meeting. Update to be provided at next CCC meeting.

3.0 General Business

3.1 Construction Progress Report

Kamilaroi Highway Upgrade	Complete
Earthworks and Rehabilitation	Complete
Site access & Kurrajong Creek Road	Complete
Industrial Complex	Complete
Ventilation Fans	Complete
66kv Transmission Line	Complete

Rail Loop	Complete
Sewerage Treatment Plant	Complete
Mine Entry	Complete
Boxcut	Complete
High and Low Voltage Works	Complete
Drift Construction	96% Complete
Mining Equipment Delivery	90% Complete
Drift & Skyline Conveyors	Complete
Coal Processing Plant	99% Complete
Train Loadout	99% Complete

Committee members asked about the possibility of top coal caving ("Stage 3"). Ben Bomford advised that at least two longwall panels would need to be completed to determine if top coal caving will be viable. If viable, application for approval will not occur for at least 2 ½ years.

The Longwall will take 12 months to build in Germany.

The brine storage dams on the Scutt property will be 3 to 5m deep as per the projection of brine production from the groundwater model.

No wet weather discharges from site. Samples collected from creek flows to establish baseline data.

Proposed MAC group accommodation (150 cabins) in Narrabri will be constructed, if approved by Narrabri Council with Narrabri Coal holding a stand alone contract with daily rates to cover accommodation and meals. There will be no bar onsite, but the complex will contain a canteen and gym. Rooms are expected to be available in December for both mine related personnel and the general public.

Greig Duncan provided a presentation that summarised the operation (attached).

Whitehaven is not responsible for rehabilitation activities at the "Bow Hills" quarry. The quarry is privately owned and the mine is utilising some gravel under a commercial agreement with the owner.

3.2 Environmental Overview

As per provided report.

4.0 Complaints and Complaints Hotline

As per provided report.

5.0 New Business

No new business

6.0 Next Meeting

Tuesday 14 December 2010, 4pm, Site Office
Meeting closed 4.59pm

Narrabri Mine

Progress Update

September 2010



Safety Matters – August 2010

- 4 Lost Time Injuries recorded project to date
- 16 Medical treatments recorded to date
- 4 Restricted duty injuries recorded to date
- Total Man Hours since commencement = 656,267hrs

1 Narrabri Mine



Stage 1 - Environment Matters

Complaints

- No recent complaints
- All land owned, except 1 parcel

Rehabilitation

- All areas required to be rehabilitated have been completed

2 Narrabri Mine



Stage 1 - Project Progress – overview



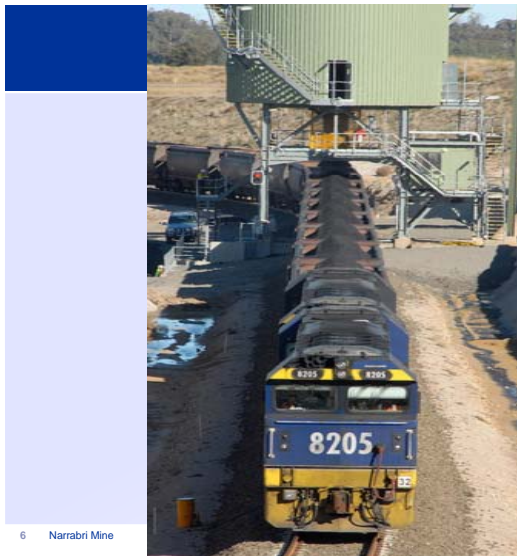
Recent Milestones

- Completion of 2 drifts – 11th June
- NCO became mine operator – 11th June
- 1st Continuous Miner Fleet started – 28th June
- Annual Program and Budget – approved
- 1st Train loaded – 23rd July
- Stage 2 Project Approval granted – 26th July
- 2nd Continuous Miner Fleet started – 17th Aug

4 Narrabri Mine



5 Narrabri Mine

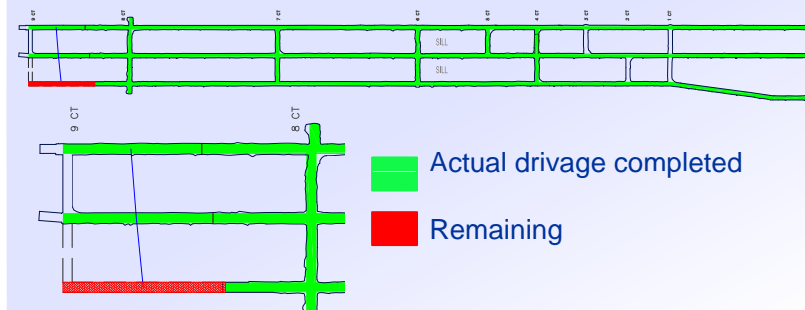


6 Narrabri Mine



Stage 1 – Drift Construction

- Metres Completed 3762m
- Revised Target metres 3802, 99% completed



7 Narrabri Mine



Stage 1 – Drift Construction

- Completion of L2 Drift (renamed B hdg for the Mining Operation) was delayed due to gas levels
- Additional gas drainage undertaken
- Drift driveage recommenced in Aug
- Weekend shifts only
- Anticipated completion Nov 2010

8 Narrabri Mine



Summary Cost Report - Stage 1

Summary Cost Report - Stage 1

31-Aug-10

AUD million

Area Code	Description	FORECAST Estimated cost at completion	ACTUAL COSTS		
			This month	To Date	To Go
1509-1	Approval	\$1.8	\$0.0	\$1.8	\$0.0
1509-2	Engineering	\$3.4	\$0.0	\$3.4	\$0.0
1509-3	Temporary Construction Works	\$1.3	\$0.0	\$1.3	\$0.0
1509-4	Earthworks	\$20.8	\$0.1	\$20.7	\$0.1
1509-5	Rail Loop	\$6.5	\$0.0	\$6.5	\$0.0
1509-6.7	High Voltage and Low Voltage	\$10.3	\$0.0	\$10.3	\$0.0
1509-8	Water Management	\$3.4	\$0.0	\$3.3	\$0.1
1509-9	Buildings	\$5.2	\$0.0	\$5.2	\$0.0
1509-10	Drift Construction	\$70.0	\$0.9	\$64.8	\$5.2
1509-11	Drift costs - other	\$10.5	\$0.0	\$10.1	\$0.5
1509-12	Conveying & load out	\$46.6	\$0.4	\$45.9	\$0.7
1509-13	Ventilation	\$1.0	\$0.0	\$1.0	\$0.0
1509-14	Mobile Equipment	\$30.6	\$0.4	\$30.5	\$0.1
1509-15	Fixed Equipment	\$0.8	\$0.0	\$0.8	\$0.0
1509-16	Safety Mgt & Equipment	\$1.8	\$0.0	\$1.3	\$0.5
1509-17	Manning	\$11.8	\$0.0	\$11.8	\$0.0
1509-18	Boggabri Warehouse	\$0.2	\$0.0	\$0.2	\$0.0
1509-033	Land	\$0.8	\$0.0	\$0.8	\$0.0
	TOTAL	\$226.7	\$1.9	\$219.6	\$7.1
	Contingency	\$0.4			\$0.4
	TOTAL STAGE 1 PROJECT COSTS	\$227.1	\$1.9	\$219.6	\$7.6

Pre Joint Venture Costs					
	Land	\$7.9	\$0.0	\$7.9	\$0.0
	Exploration	\$8.0	\$0.0	\$8.0	\$0.0
	Stage 2	\$0.0	\$0.0	\$0.0	\$0.0
	Narrabri South	\$0.2	\$0.0	\$0.2	\$0.0
	Sub Total	\$16.1	\$0.0	\$16.1	\$0.0
	TOTAL COSTS	\$243.2	\$1.9	\$235.7	\$7.6

9 Narrabri Mine



Stage 1 – Budget Review

- Extended time for completion of L2 has put pressure on the drift budget, but will be completed within approved funds
- Stage 1 within budget excluding drifts

10 Narrabri Mine



Summary Cost Report - Stage 2

Summary Cost Report - Stage 2

EOM

31-Aug-10

AUD million

Area Code	Description	BUDGET Approved Budget	FORECAST Estimated cost at completion	Project Variance	ACTUAL COSTS		
					This month	To Date	To Go
1519-1	Environmental & Exploration	\$7.3	\$7.1	\$0.1	\$0.0	\$6.8	\$0.5
1519-2	Longwall	\$146.2	\$138.0	\$8.2	\$0.3	\$43.0	\$95.0
1519-3	Coal Process System	\$57.7	\$57.7	\$0.0	\$0.0	\$17.6	\$40.0
1519-4	Ventilation Shaft & Fans	\$26.8	\$23.3	\$3.5	\$0.3	\$4.4	\$19.0
1519-5	Mobile Equipment	\$3.3	\$3.3	\$0.0	\$0.1	\$0.8	\$2.5
1519-6	Industrial Area	\$2.4	\$2.3	\$0.1	\$0.0	\$0.5	\$1.8
1519-7	Power Upgrades	\$3.0	\$11.8	-\$8.8	\$0.0	\$0.7	\$11.1
1519-8	Underground Services	\$5.1	\$5.0	\$0.1	\$0.0	\$0.1	\$4.9
1519-9	Underground Conveyors	\$17.8	\$17.5	\$0.3	\$0.1	\$5.4	\$12.1
1519-10	Land Acquisitions	\$5.3	\$8.3	-\$3.0	\$0.0	\$5.1	\$3.1
1519-11	Surface Water	\$9.1	\$9.1	\$0.0	\$0.0	\$1.7	\$7.4
1519-12	Control Equipment	\$2.7	\$2.7	\$0.0	\$0.4	\$1.3	\$1.4
1519-13	Project Services & Staff	\$8.4	\$8.8	-\$0.4	\$0.3	\$4.4	\$4.4
	TOTAL	\$295.0	\$295.0	\$0.0	\$1.5	\$91.7	\$203.3
	TOTAL STAGE 2 PROJECT COSTS	\$295.0	\$295.0	\$0.0		\$91.7	\$203.3
	Remaining Contingency		\$13.5				

11 Narrabri Mine



Stage 2 – Status of Contracts

Task	Contract \$	Status	Awarded To
Longwall	\$128.3	Commenced	Bucyrus
Shaft	\$11.7	Commenced	Australian Shaft Drilling
Fan	\$6.0	Commenced	Howden Australia
Engineering	\$0.6	Commenced	URS
Earthworks	\$3.4	Commenced	Specialised Civil Services
Industrial Area & Admin extension	\$1.5	Awarded	
Power Upgrades	\$2.4	Awarded - Transformers	
CHPP	\$51.2	Commenced	Sedgman
Reclaim Extension	\$2.1	Commenced	Halley & Mellowes
Mining equipment	\$0.8	Commenced	Various
Underground Conveyors	\$12.4	Commenced	ACE Conveyors, Veyance Belting
PLC and Scada	\$1.8	Commenced	Matrikon and others
Surface Water Management		Tendering	
Consultancy / Secondment	\$4.3	Ongoing	URS & others
Total contract commitments	\$226.5		
Stage 2 Budget	\$295.0		
Percentage committed	77%		

12 Narrabri Mine



Stage 2 – Approval

- Stage 2 Project Approval granted 26th July

Project Approval

Section 75J of the *Environmental Planning and Assessment Act 1979*

I approve the project referred to in schedule 1, subject to the conditions in schedules 2 to 7.

These conditions are required to:

- prevent, minimise and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

Richard Pearson
Deputy Director-General, DASP
as delegate for the Minister for Planning

13 Narrabri Mine

26th July

2010

N COAL

Stage 2 - CHPP

- Preliminary design review complete
- Hazard assessment workshop complete
- Final design review 17th August
- Long lead items procured
- Mobilisation and civil construction commenced end August

14 Narrabri Mine



Stage 2 - Longwall

- LW Project 66% complete
- Roof supports**
 - Final PIA completed late July
 - Phase 2 (60k cycles) testing completed 2 July
 - Some problems with bases and canopy – leg pocket area
 - Some improvements needed, however, overall structures pretty good
 - Also, problems with legs (outer barrel) – to be redesigned
 - Extra inspections and quality control checks organised
 - TG PRS redesigned (4 legs, longer canopy, increased clearance TG drive)

15 Narrabri Mine



Stage 2 - Longwall

- **Shearer**
 - Final assembly, pre-test inspection completed in July
 - Non-conformances – implications being assessed
- **Equipment delivery to Bucyrus Beresfield – pans, monorail sleds late August**
- **Schedule**
 - Delay of 9 to 15 weeks likely due to PRS issues
 - Bucyrus still to advise implications of underground installation delay
- **Services agreement – in progress**
- **Expenditure**
 - Budget \$127.8m
 - Variations + \$400k so far

16 Narrabri Mine



Operations – Personnel

- **LDO labour being utilised along with NCO crews**
- **27 staff positions filled with additional 1 recruited to commence**
- **Issues;**
 - Still a very competitive labour market
 - accommodation still very tight.
- **Actions:**
 - Contractual Arrangement with WorkPac as 3rd party labour supply
 - Revision of Experienced Pay Rates has enhanced recruitment activities
 - Inexperienced recruitment underway – 100 people currently being tested

17 Narrabri Mine



Operations – Accommodation

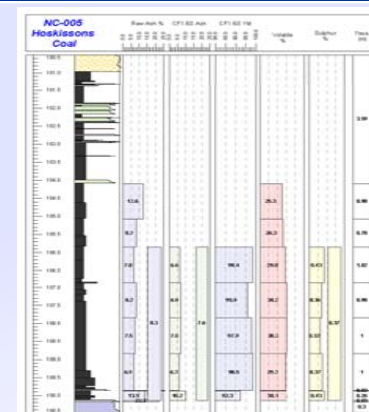
- **Contract with “The Mac” for provision of village accommodation**
- **150 rooms**
- **Rates include breakfast, dinner and crib take-away lunch**
- **Cleaning, housekeeping, supply of linen**
- **Austar, internet access**
- **Gymnasium**
- **On-site village Manager**

18 Narrabri Mine



Hoskissons Seam

- Raw Ash 8.3%
- Volatiles 28-30%
- Sulphur 0.37%
- Calorific Value 6,950 kcal/kg
- Seam Thickness 9m
- Seam Working Section 3.5-4.2m (without top coal caving – TCC)
- Proposed 4.2m mining section; bypass 60%, wash 40%
- Opportunity to produce PCI and very low ash thermal coal
- Possible future full seam extraction using TCC



19 Narrabri Mine



Narrabri Mine Plan

Mine Plan Details

- Seam thickness ~9m
- 26 longwall panels
- Panel length 4,000m
- 300m Panel Width
- 6 Mt panels at 4.2m mining height
- Potential for 12 Mt panels with TCC



20 Narrabri Mine



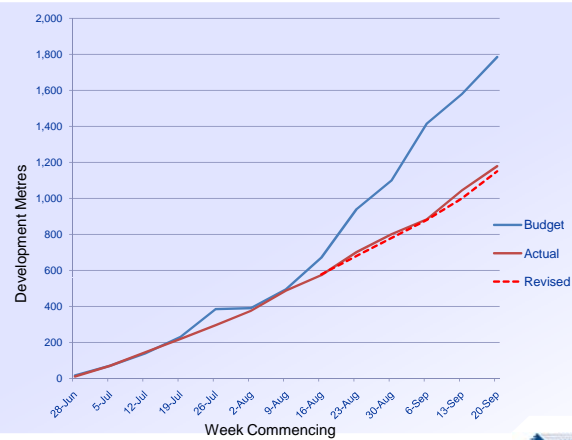
Operations to Date

- Coal development commenced 28th June 2010
- Commissioned first development unit
- Trained 3 x midweek production crews
- Completion of B heading drift (former L2 drift)

21 Narrabri Mine



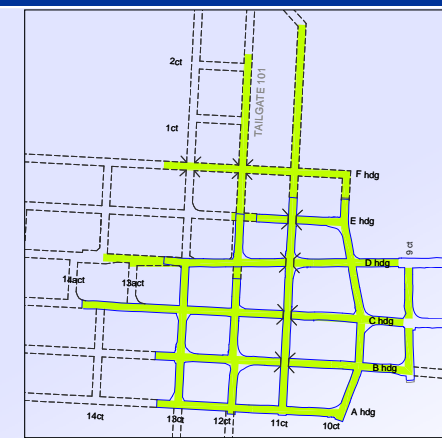
Cumulative Development – Planned vs Actual



22 Narrabri Mine



Drivage to Date (end Aug)



23 Narrabri Mine



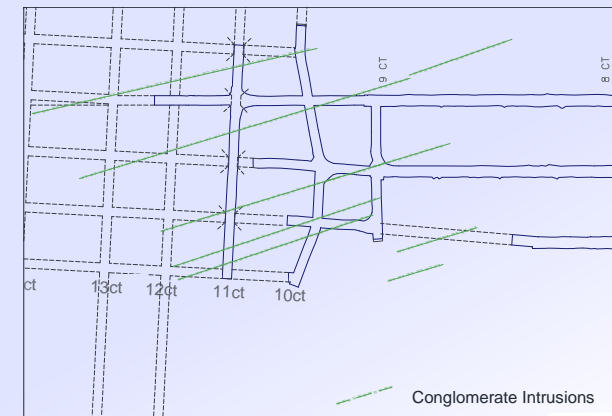
Mining Conditions

- Roadway conditions
- Gas make at face
- Advance rate of roadways driven to conglomerate roof bolting dependant
- Conglomerate intrusions

24 Narrabri Mine



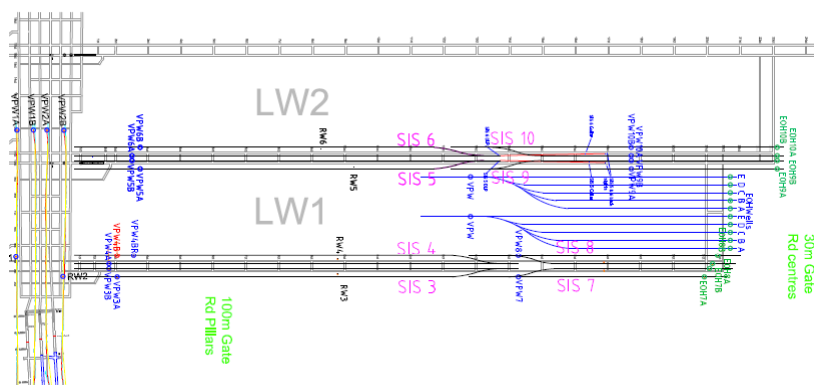
Conglomerate Intrusions



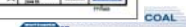
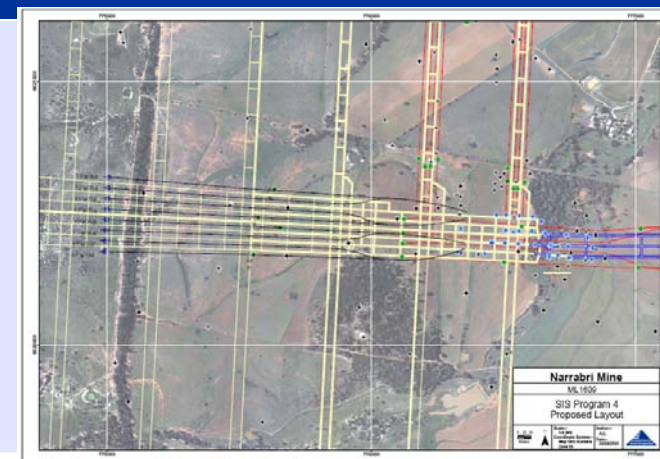
25 Narrabri Mine



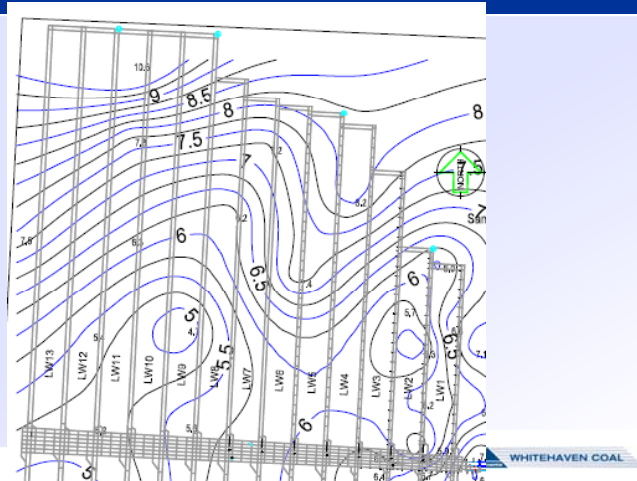
Gateroad SIS Drainage Wells



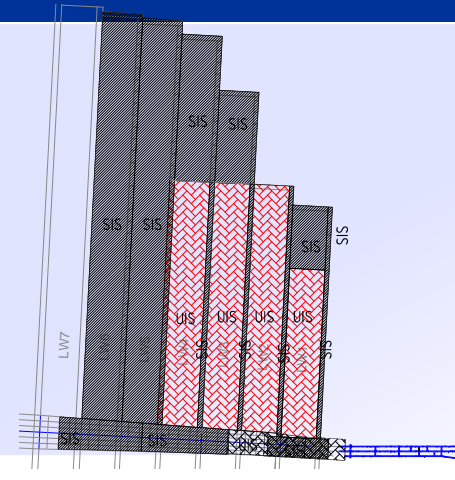
Main Headings SIS Design Inbye 21ct



Narrabri Mine Northern Panel Gas Contours



Gas Drainage Strategy



Evaluation of Gas Drainage Options

SIS for Gateroads

- Remote from underground interaction
- Longer lead time gas drainage (6 months plus)
- UIS as contingency (LW block only)

UIS across outbye areas of LW2 – 4

- Lower insitu gas quantities in outbye areas
- Ability to modify borehole spacing to optimise relationship between drainage time and gas content

Narrabri Coal Mine Community Consultative Committee Meeting #10

Environmental Monitoring Report May 2010 – July 2010

Noise Monitoring

Attended noise monitoring was undertaken on the 23rd June 2010 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 23 June 2010 (Day)				
Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	12:41 pm	44.0	1.0-1.5 m/s SE	Traffic (43), Birds (35), NCM inaudible
Naroo	11:03 am	50.0	1.0-1.5 m/s SE	Traffic (47), Birds (45), Wind (40), NCM (35)
Claremont*	11:23 am	45.0	1.0-1.5 m/s SE	Wind (41), Birds (40), Tractor (38), NCM (25)
Westhaven	11:49 am	45.0	1.0-1.5 m/s SE	Birds (42), Wind (38), NCM (34)
Greylands	12:16 pm	43.0	1.0-1.5 m/s SE	Traffic (42), Birds (35), Wind (35), NCM (33)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

Noise Monitoring Results – 23 June 2010 (Evening)				
Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:35 pm	43.0	1.0-1.5 m/s SE	Traffic (42), Insects (35), NCM inaudible
Naroo	8:16 pm	38.0	1.0-1.5 m/s SE	Traffic (36), Insects (31), NCM inaudible
Claremont*	7:52 pm	37.3	1.0-1.5 m/s SE	Wind (36), Pump (32), NCM inaudible
Westhaven	7:28 pm	36.0	1.0-1.5 m/s SE	NCM (34), Insects (31), Sheep (26)
Greylands	7:06 pm	41.0	1.0-1.5 m/s SE	Traffic (38), Insects (34), NCM (33)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

Noise Monitoring Results – 23 June 2010 (Night)				
Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	10:05 pm	44.0	0.5 m/s SE	Traffic (43), Insects (36), NCM inaudible
Naroo	10:23 pm	37.5	0.5 m/s SE	Traffic (35), Insects (34), NCM inaudible
Claremont*	10:46 pm	34.0	0.5 m/s SE	NCM (32), Insects (30)
Westhaven	11:18 pm	34.1	0.5 m/s SE	NCM (33), Insects (28)
Greylands	11:41 pm	38.0	0.5 m/s SE	Insects (35), Traffic (34), NCM (30)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

The results indicate that noise emissions from the mine were below the criterion of 35 dB(A), $L_{eq(15min)}$ at all receivers, with exception of “Naroo” day emissions where 35 dB(A) was recorded, equal to the limit.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) $L_{1(1 min)}$ 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 measurement circuit the $L_{1(1 min)}$ noise from the mine did not exceed 45 dB(A) at any monitoring location.

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont
August 2009	64.4	2.2	6.2	1.5	1.6	2.3	1.5	1.4
September 2009	18.9	20.5	18.1	23.6	12.9	14.3	12.6	19.1
October 2009	8.3	4.2	4.8	2.7	2.7	0.9	2.7	4.1
November 2009	7.0	1.9	1.5	2.2	1.9	1.9	2.8	1.5
December 2009	15.4	10.3	2.3	3.1	1.9	1.9	1.7	1.8
January 2010	10.7	3.8	1.4	11.0	1.6	5.4	1.5	5.0
February 2010	5.2	1.3	1.2	2.9	1.6	2.3	0.9	2.0
March 2010	1.3	1.5	1.0	26.3	2.9	4.3	5.2	2.6
April 2010	1.4	1.0	1.4	36.1	1.4	0.8	4.5	2.1
May 2010	1.3	2.2	1.0	8.0	18.3	3.3	1.6	1.0
June 2010	1.0	1.4	4.8	16.0	7.8	2.2	3.0	1.2
July 2010	1.4	0.8	3.0	21.0	4.2	0.6	11.1	0.9
Annual Average	11.4	4.2	3.9	12.9	4.9	3.4	4.1	3.6

Deposited dust results have remained at relatively low levels since the last meeting with the exception ND4 (Matoppo), ND5 and ND7 (Claremont). ND3 (Bow Hills) slightly exceeded the 4 g/m²/month criteria during June 2010.

ND4 at Matoppo has returned elevated dust levels since January 2010. Recent discussions with the residents have confirmed that the elevated dust results are not mine-related and that the mine does not cause any dust issues for the residents. The residents have advised that since January they have been burning materials (eg. newspapers) in a drum in close proximity to the dust gauge. The compliant result in February correlates with when the residents were on holidays. The residents have indicated that they will relocate the drum which should result in a decrease in deposited dust levels at ND4.

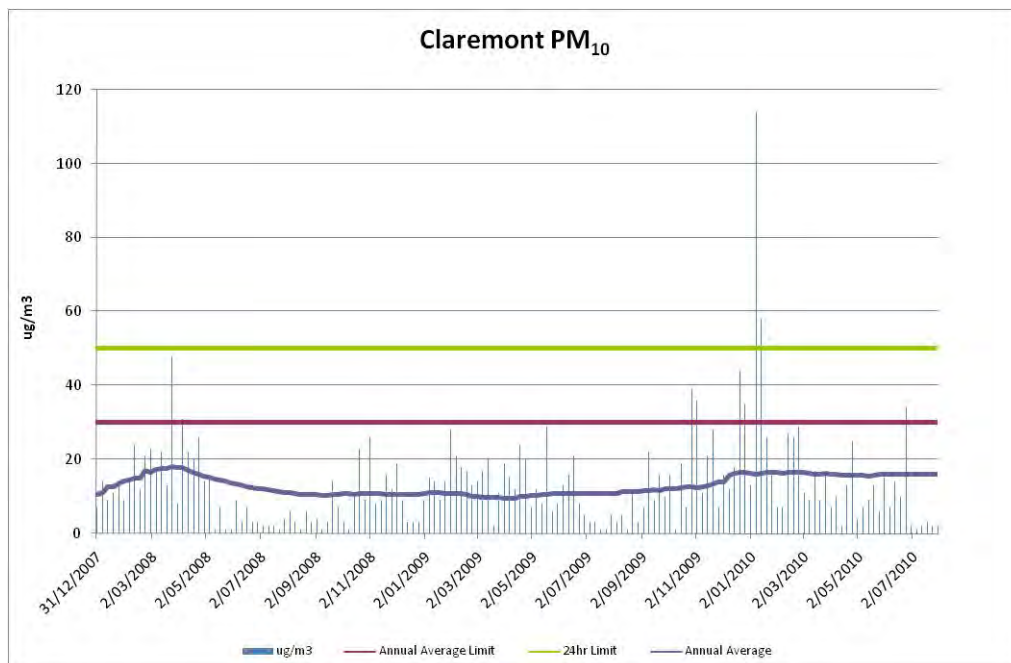
The elevated results at ND5 (Claremont) are not unexpected as the area adjacent to the monitor has also been subject to earthworks over the past three months. ND7 at Claremont recorded an elevated reading for July 2010 which is thought to be caused by construction and traffic in that area. The slightly elevated result at ND3 (Bow Hills)

is not thought to be caused by activities at the mine, based on prevailing wind directions during the month.

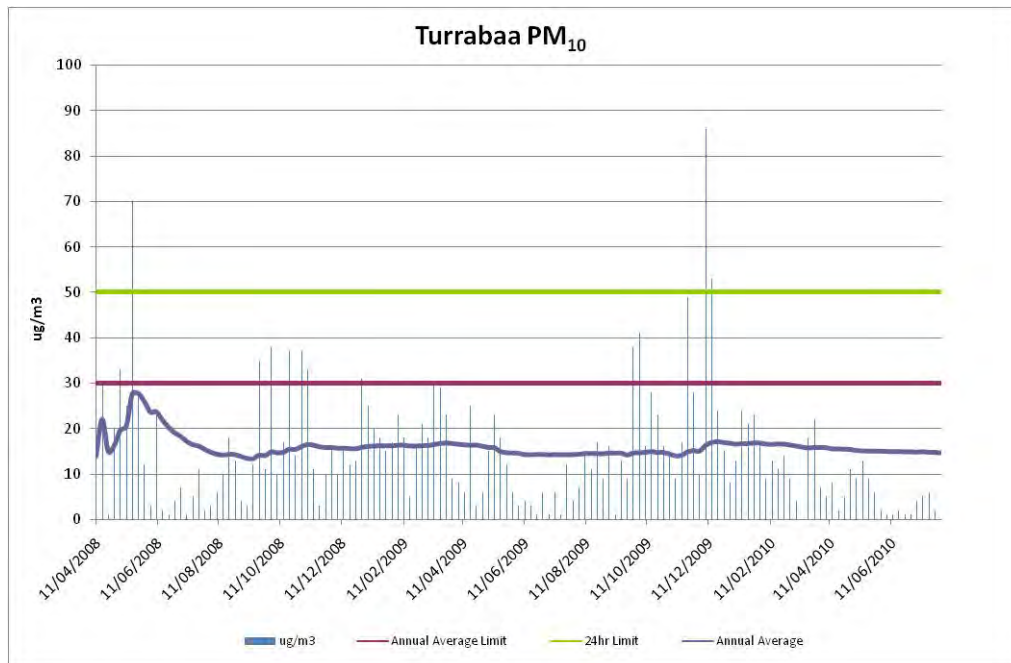
Currently, five sites (ND1, ND2, ND4, ND5 and ND7) have an annual average that exceeds the annual average criteria of $4 \text{ g/m}^2/\text{month}$, compared to 3 sites at the last meeting. The number of monitoring locations exceeding the annual average criteria is expected to reduce over the next three months as the elevated results in September 2009 become redundant in the annual average calculation.

High Volume Air Sampling (PM₁₀)

PM₁₀ measurements taken to date for the “Claremont” High Volume Air Sampler is returning a running annual average of $16.0 \text{ } \mu\text{g/m}^3$ which is well below the annual average limit of $30 \text{ } \mu\text{g/m}^3$.



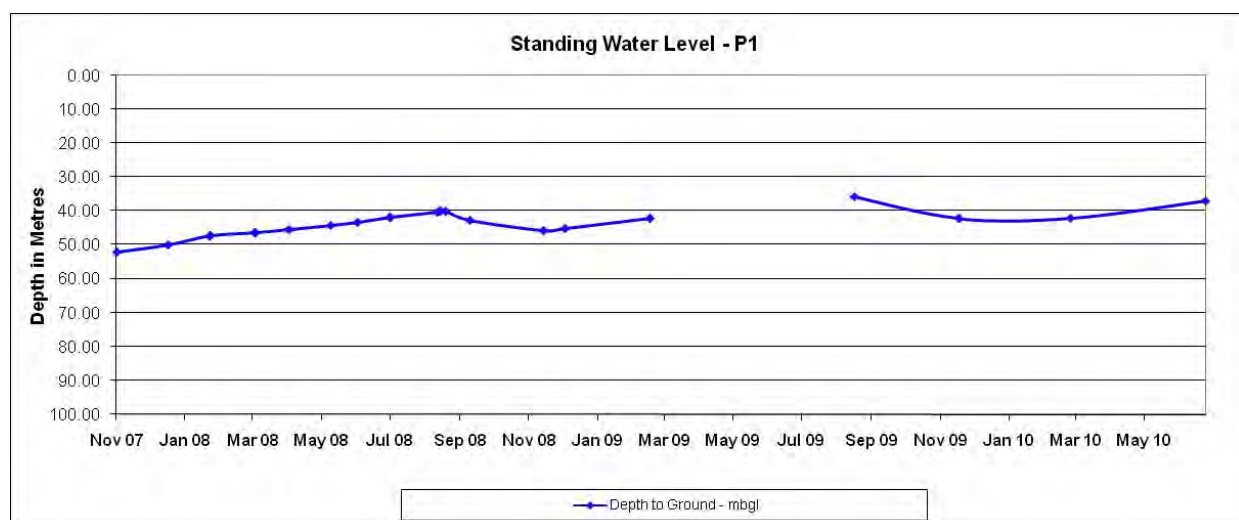
PM₁₀ measurements taken to date for the “Turrabaa” High Volume Air Sampler is returning a running annual average of $14.66 \text{ } \mu\text{g/m}^3$ which is also well below the annual average limit of $30 \text{ } \mu\text{g/m}^3$.

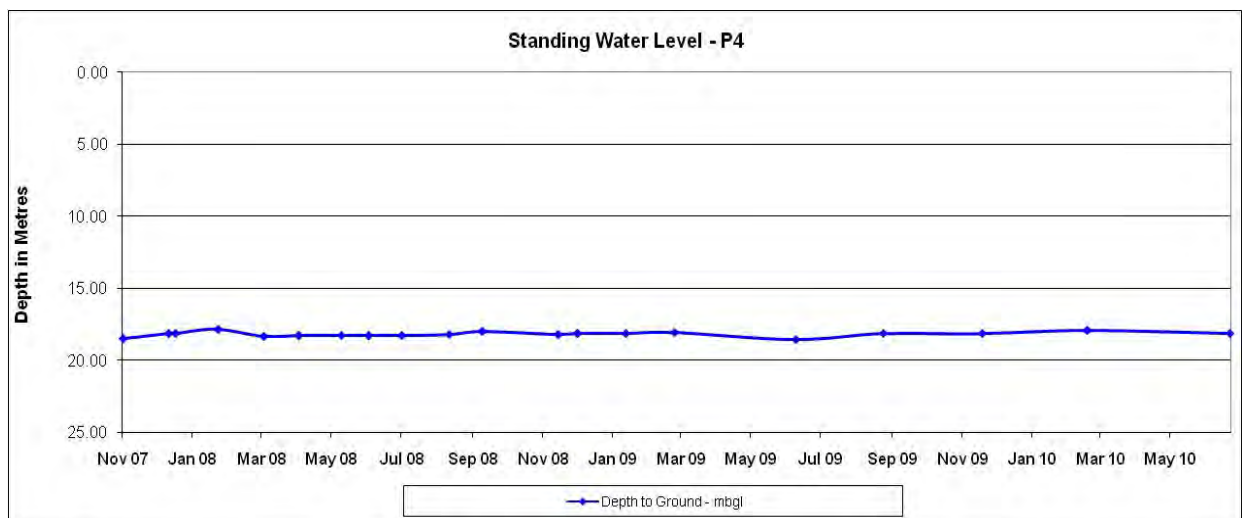
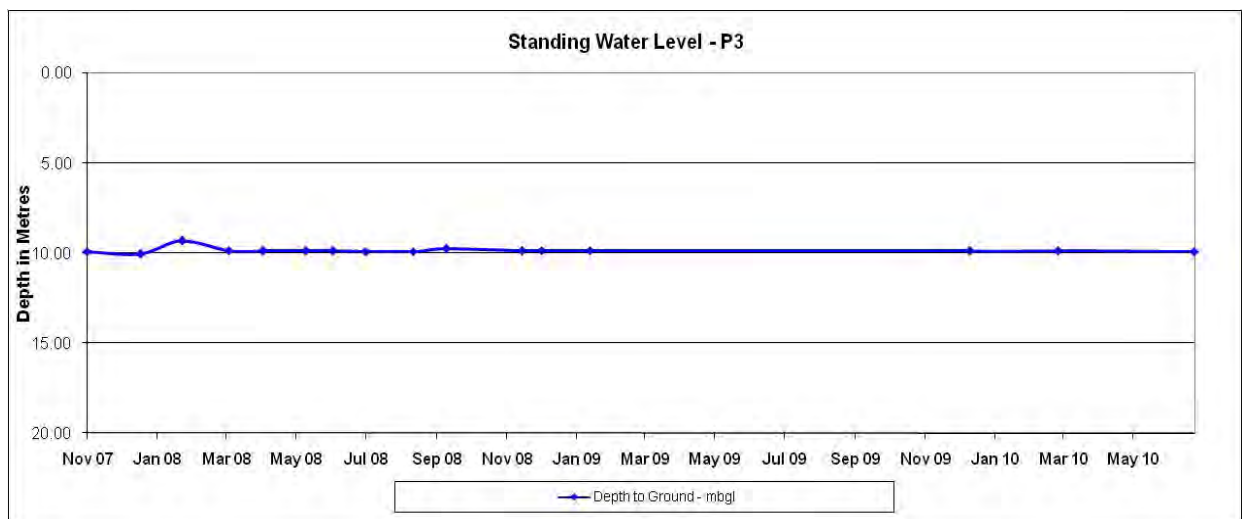
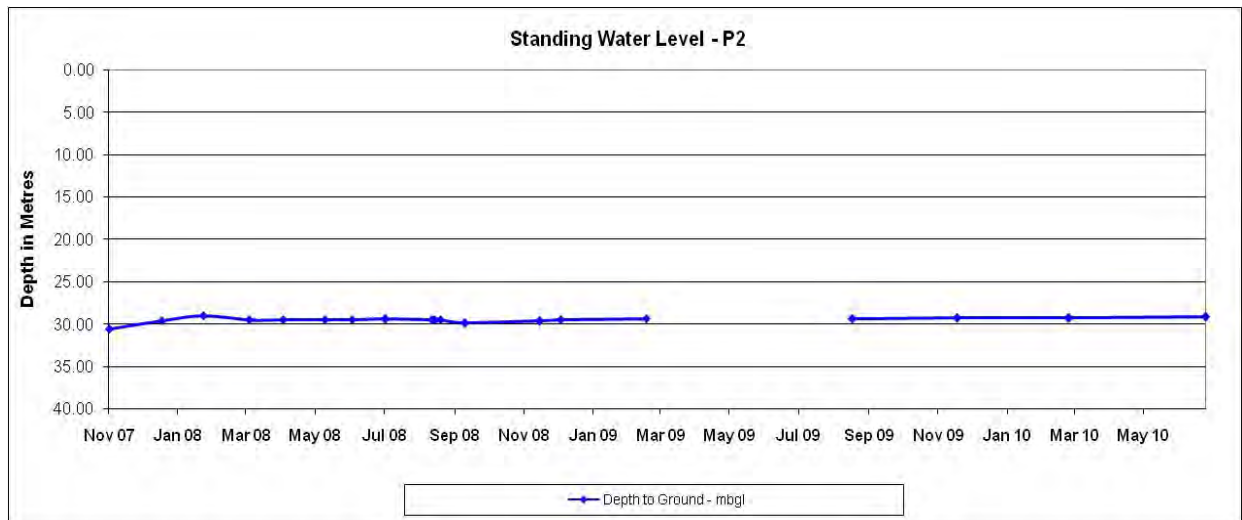


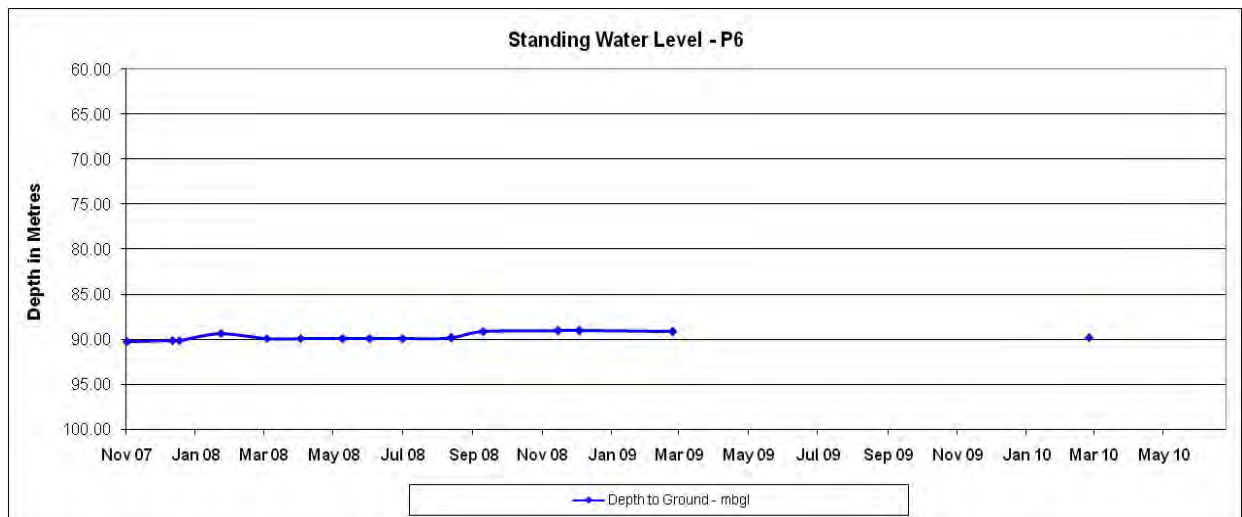
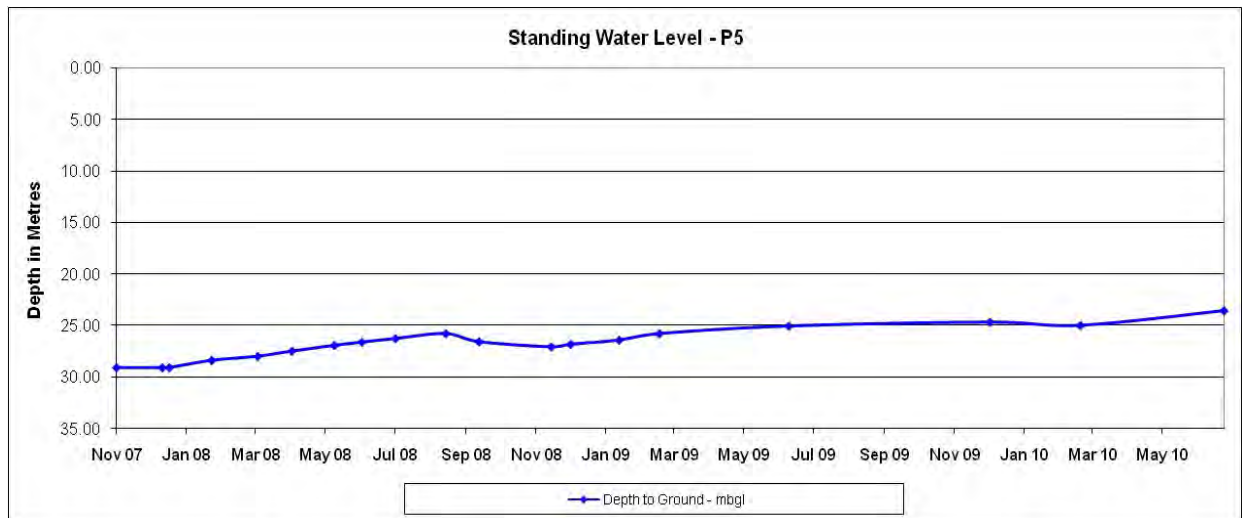
PM₁₀ levels have remained compliant over the past month.

Groundwater Monitoring

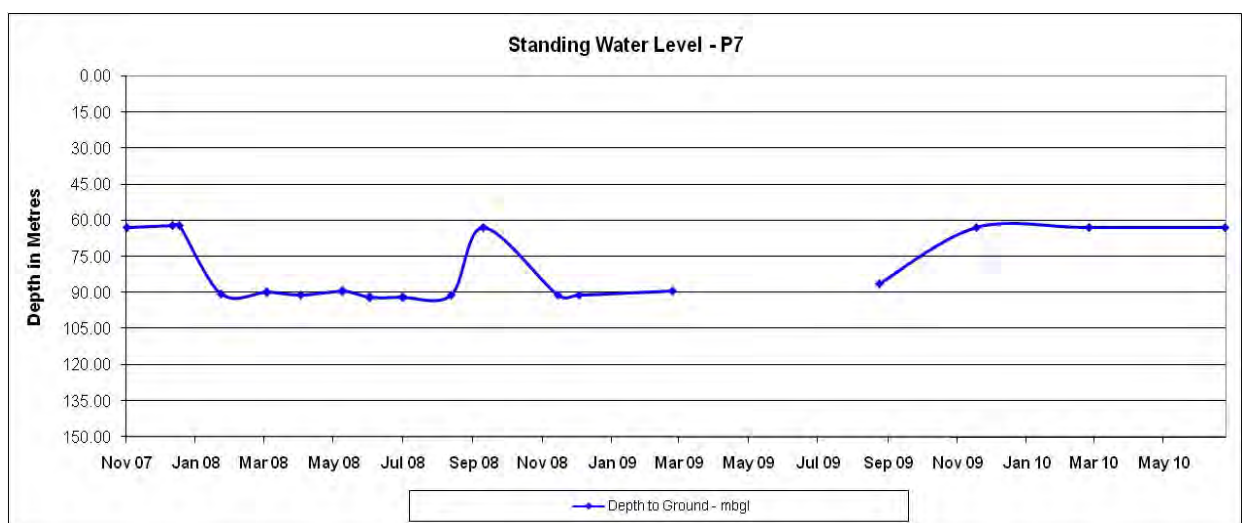
The graphs below show the SWL trends at each site since monitoring commenced. In general, groundwater levels have remained relatively constant over the last 6 months with the exception of P18 and P20. These piezometers are located approximately 1.5km north-east of the surface facilities and the drop in SWL is likely associated with water extraction from the coal seam. P20 has recently been grouted and will therefore no longer be monitored. This was required as the piezometer was due to be intersected by a lateral gas drainage hole.

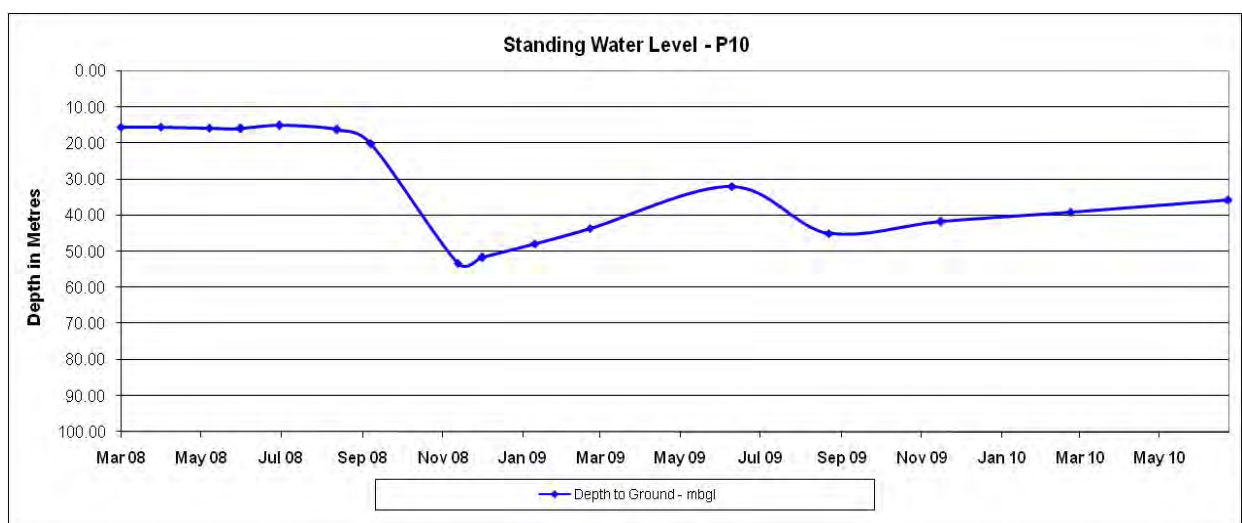
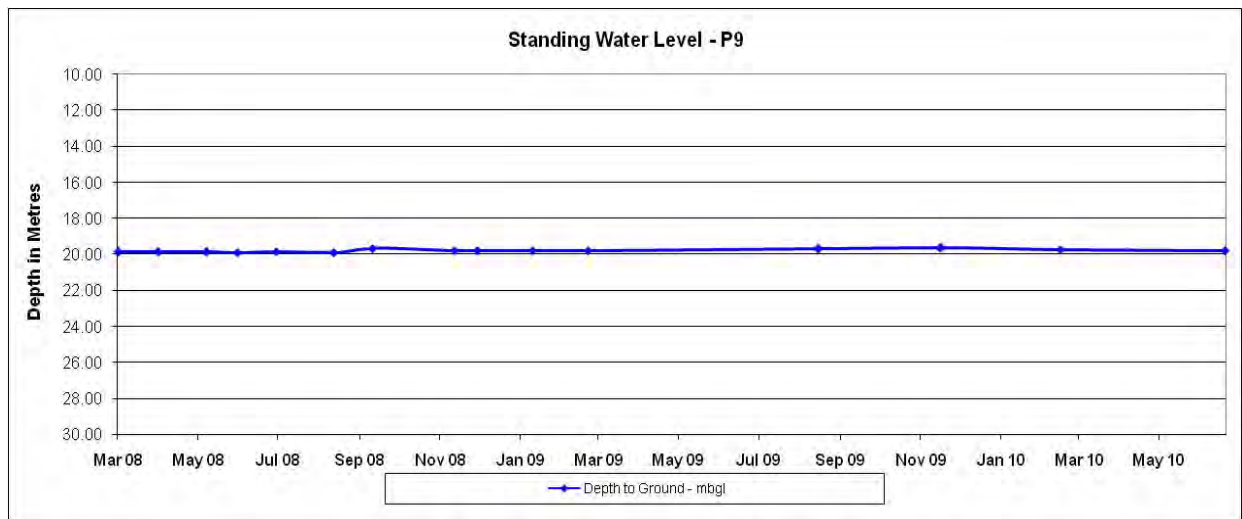
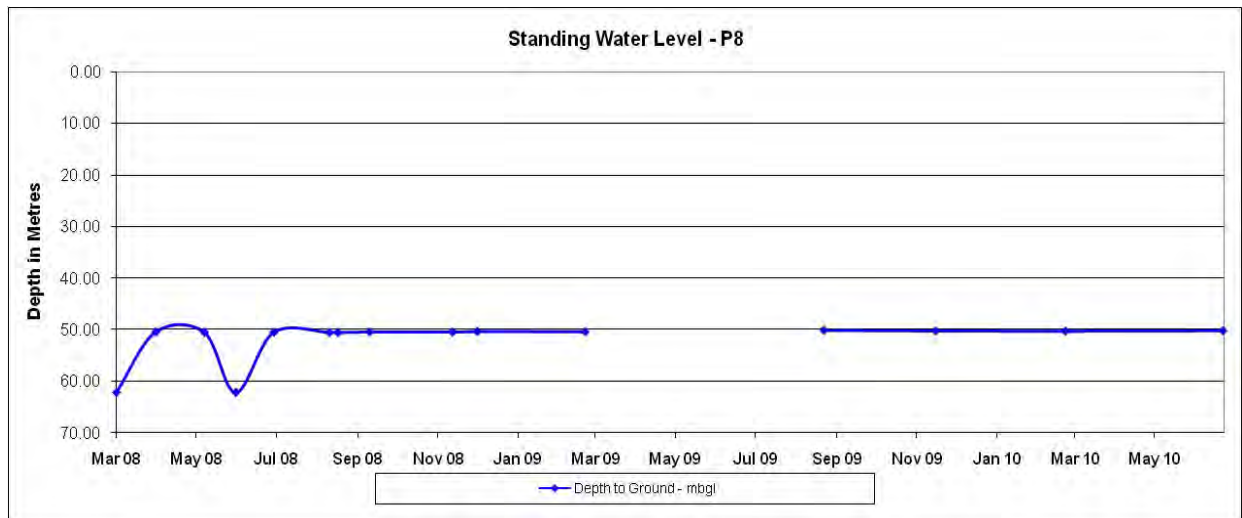


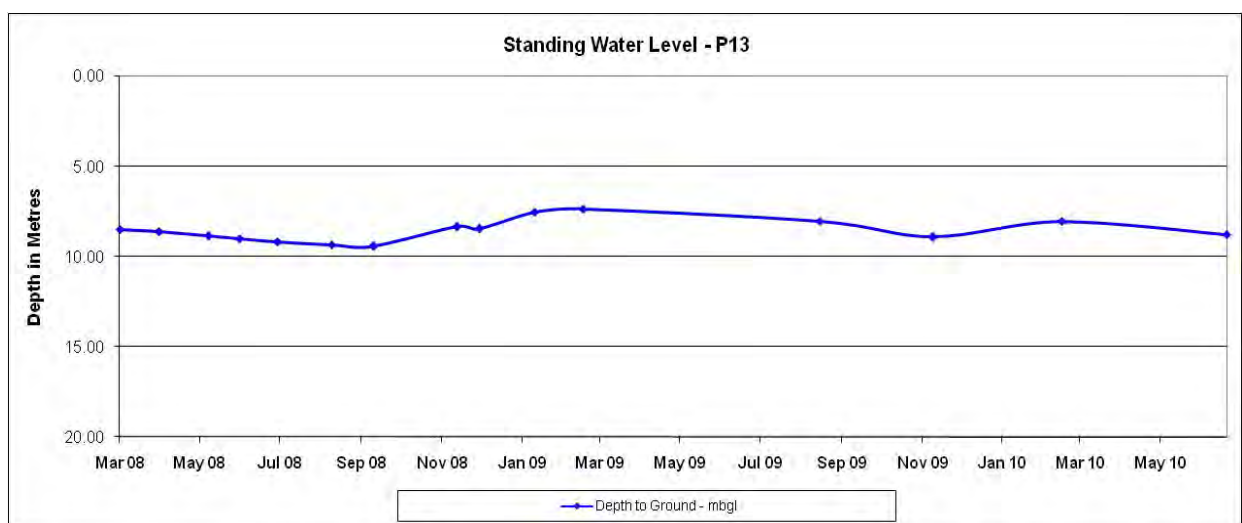
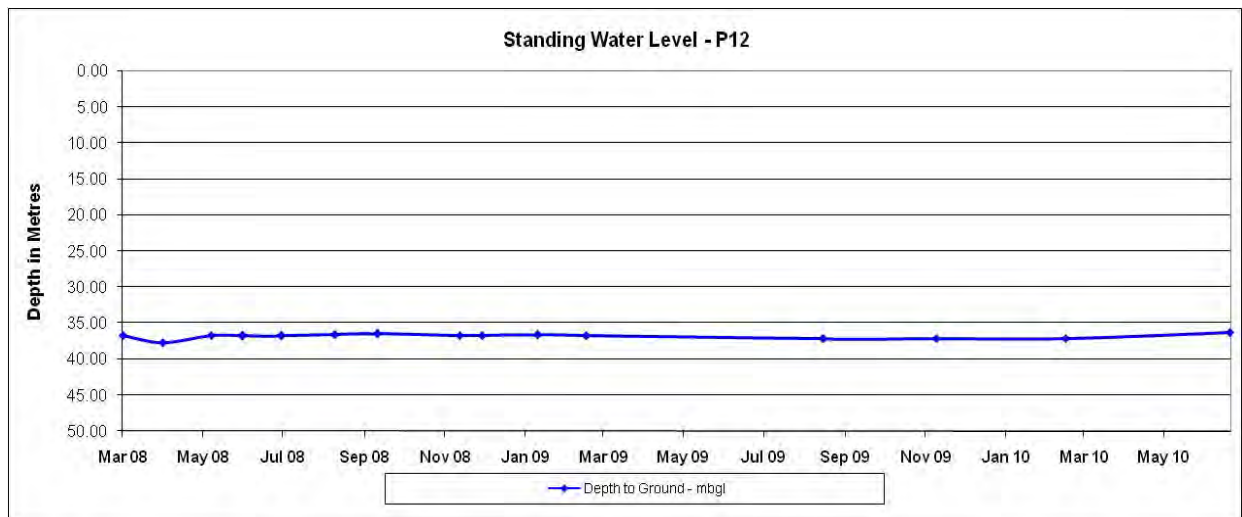
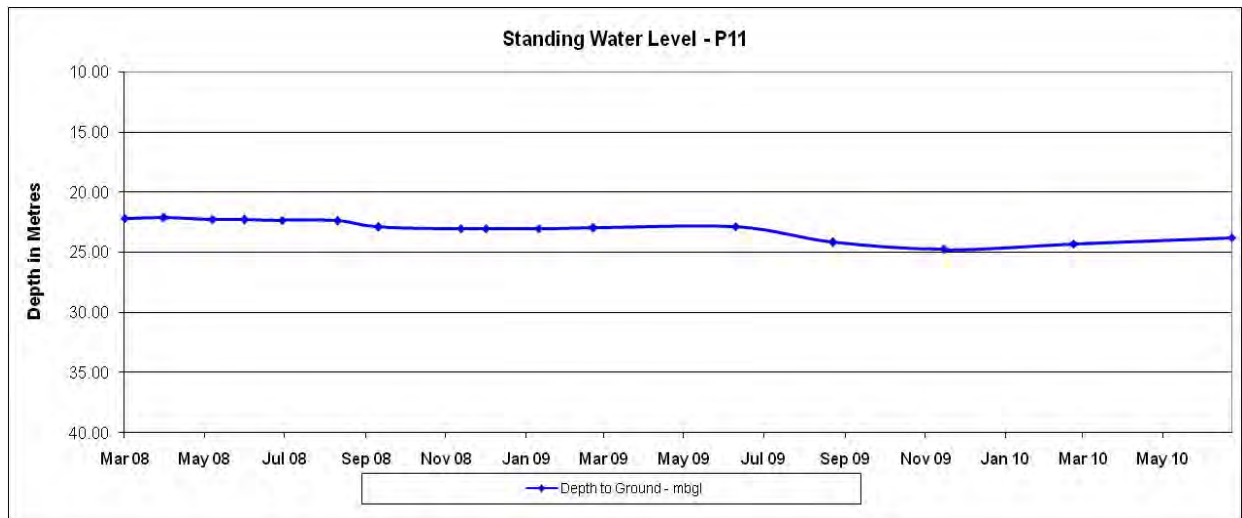


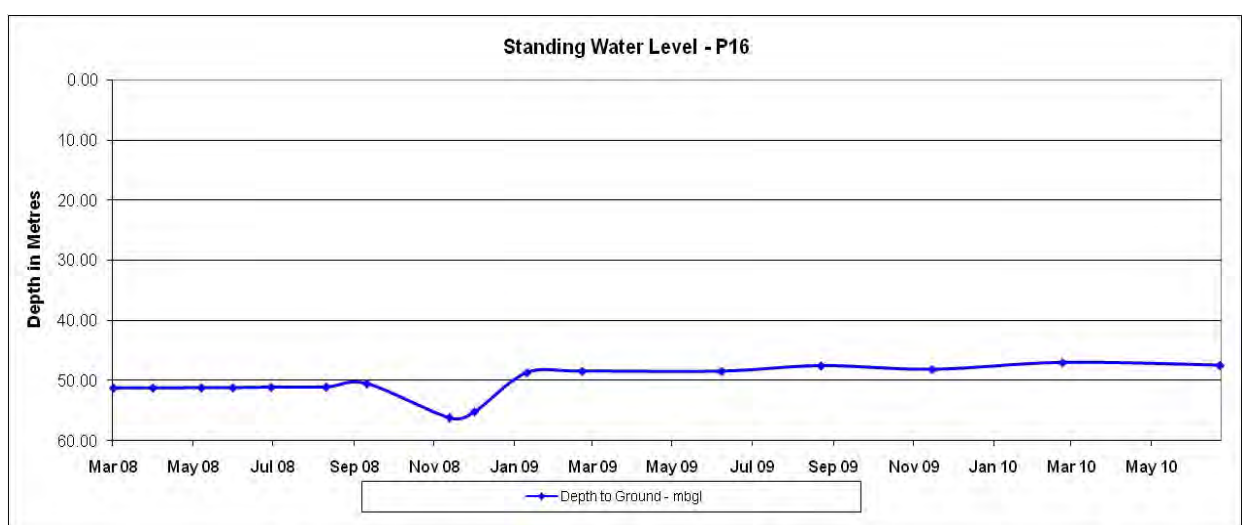
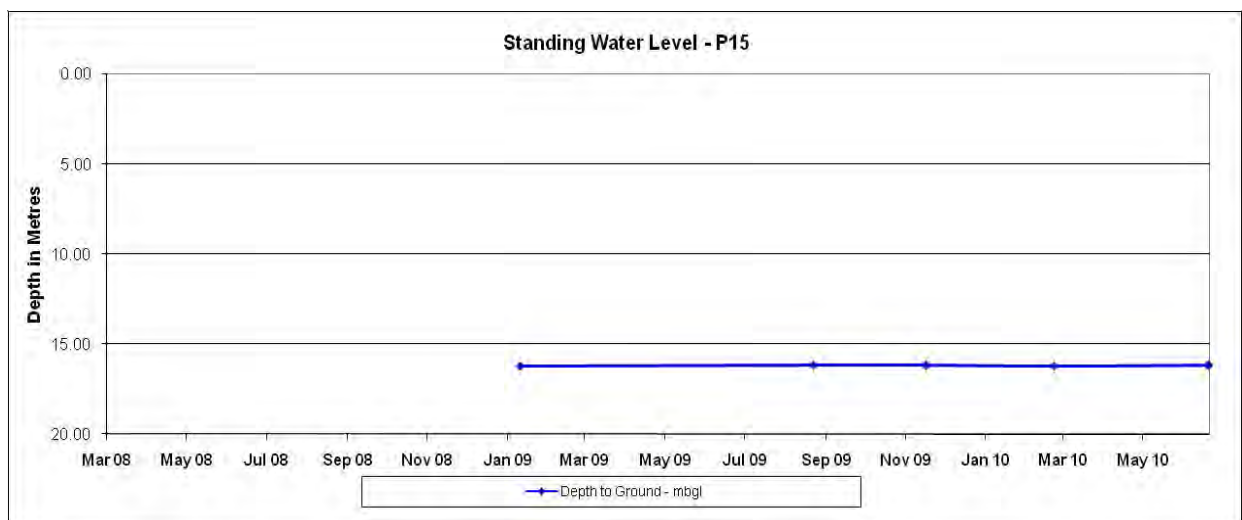
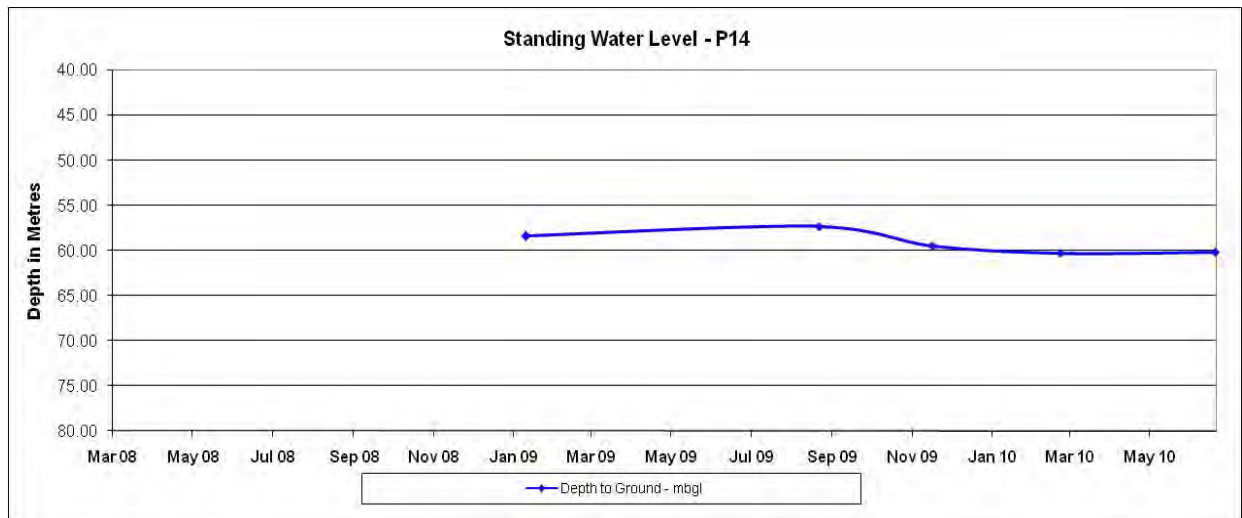


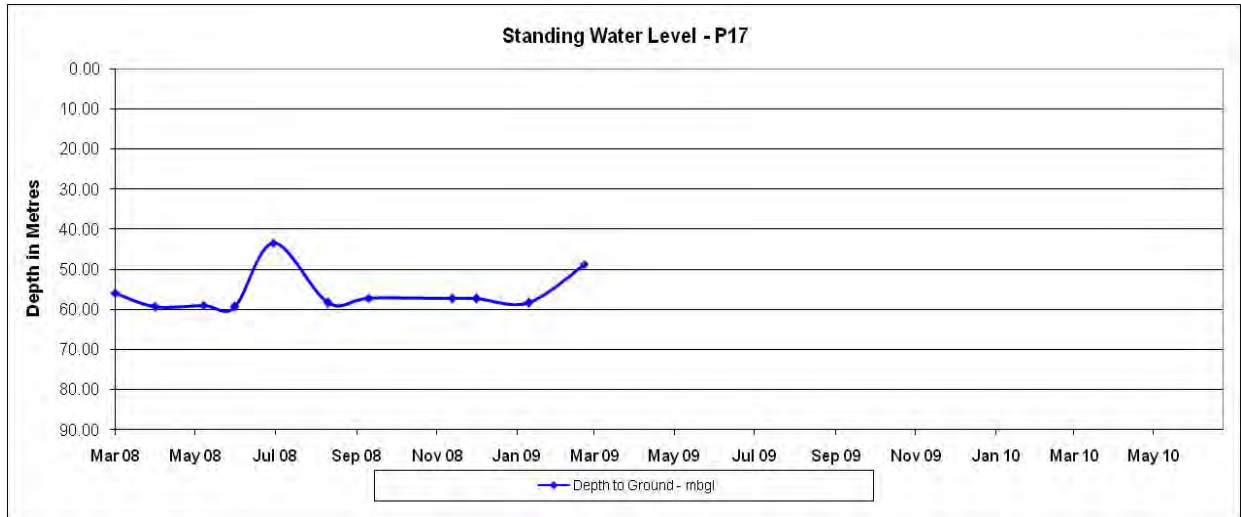
*P6 – Dry



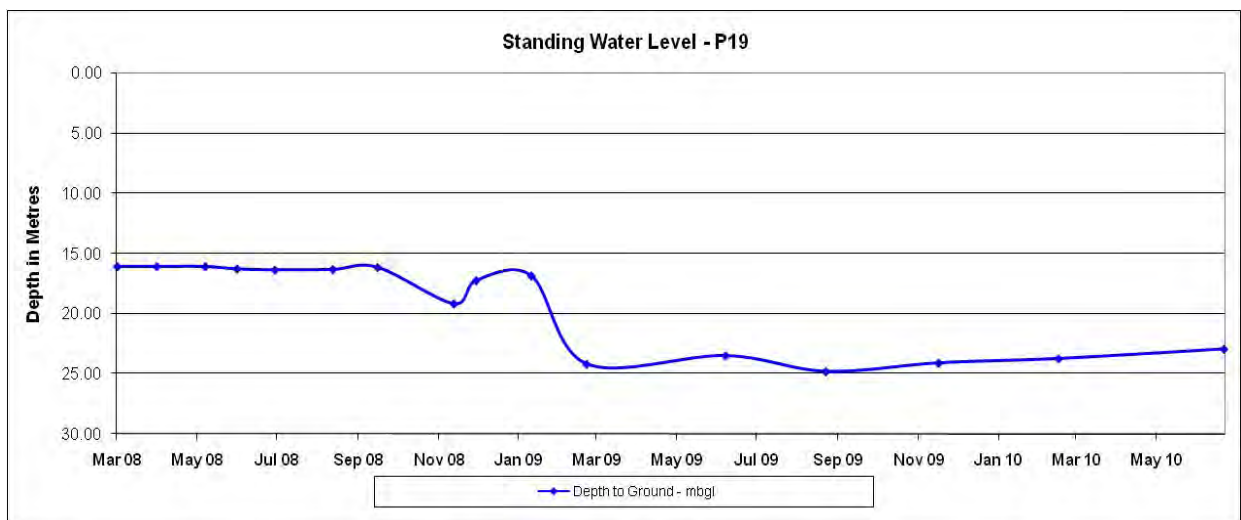
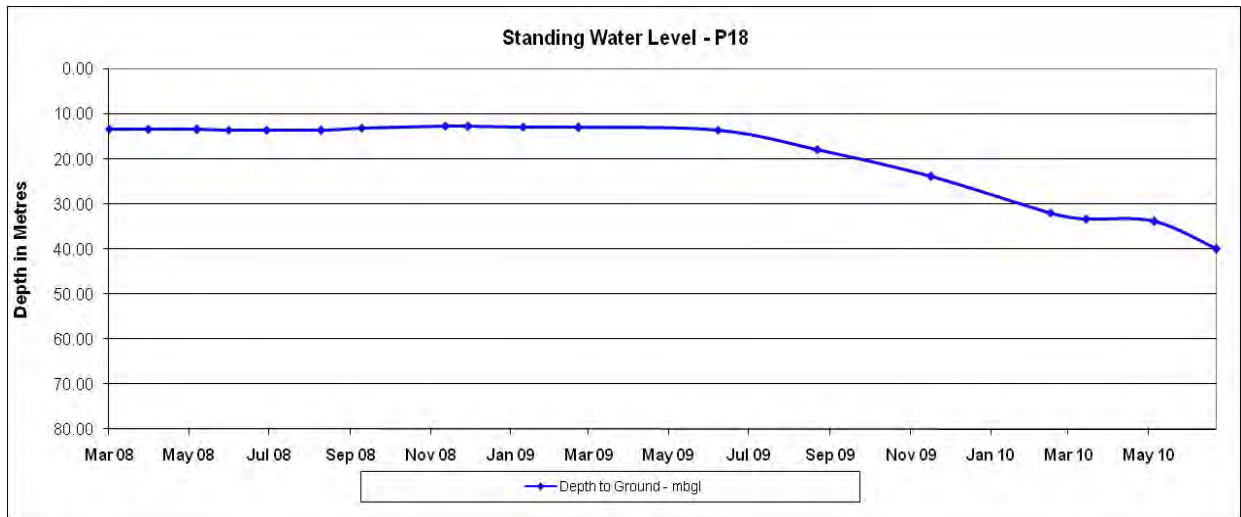


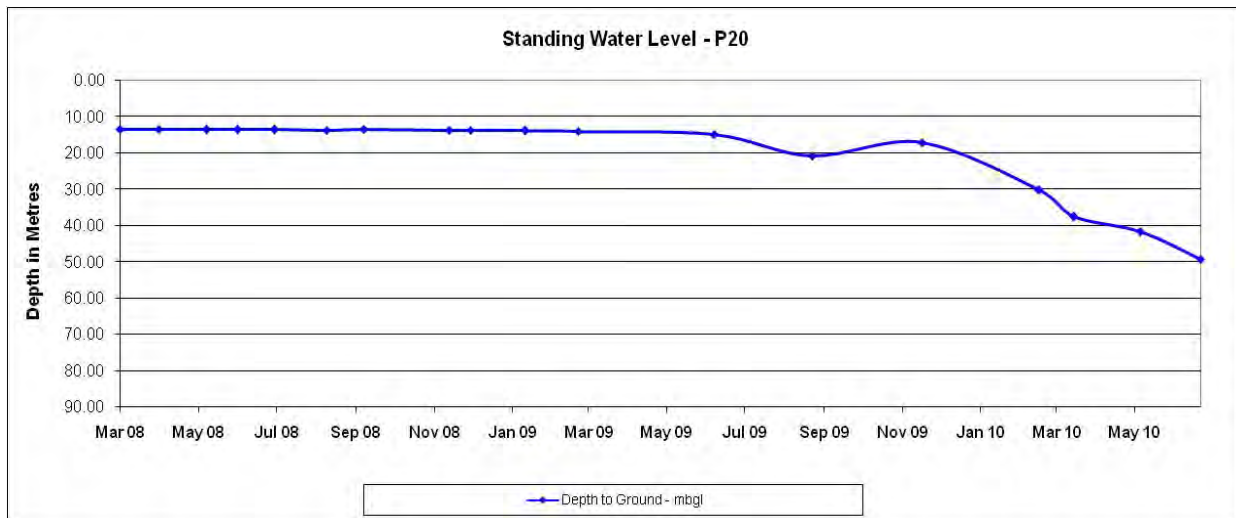






***P17 - Dry**





Surface Water Monitoring

No wet weather discharges have occurred during the last 3 months.

Routine monitoring of onsite dams was conducted in July 2010 to obtain background water quality data. There was nothing in these results that were indicative of any change in water quality since monitoring commenced.

Complaints

No complaints have been lodged since the last CCC meeting.

Rehabilitation

The planting of tube stock in and around the amenity bund has occurred to improve the site visually.



Community Consultative Committee Meeting Minutes

Meeting No: 11

Date: 14 December 2010

Time: 4.00pm

Location: Narrabri Coal Operations Site Office

Present:

Terry Miller - Chairman
Peter Webb
Mark Foster
Dean Lawrence (Narrabri Coal Operations Commercial Manager)
Ben Bomford (Narrabri Coal Operations Project Manager)
Jill Scealy (Whitehaven Environmental Officer)
Mereka Smith (Administration Assistant)

1.0 Apologies

Greig Duncan
Sally Hunter
Danny Young

2.0 Previous Minutes

Moved: Peter Webb

Seconded: Mark Foster

2.1 Business Arising from Previous Minutes

- 2.1.1 Open Day postponed further due to delays with the longwall in Germany, possibly August 2011. Will take a few months to assemble and conduct testing. Open Day to be run once these are completed. Update to be provided at next CCC meeting.
Newsletter for the public to be developed (mail box drop or article in the local papers) on where we are up to with projects and mine status.
- 2.1.2 DECCW has indicated it is looking at options for more region wide baseline monitoring to capture appropriate data and that advice would issue to mining companies in the broader region in regard to this in the near future. Update to be provided at next CCC meeting.

3.0 General Business

3.1 Construction Progress Report

DESCRIPTION OF WORKS	PERCENT COMPLETE
Environmental and Exploration	100%
Longwall	75%
Coal Process System	50%
Ventilation Shaft and Fans	50%
Underground and Surface Mobile Equipment	80%

Industrial Area	55%
Power Upgrades	25%
Underground Services	10%
Underground Conveyors	70%
Land Acquisition	95%
Surface Water	40%
Control Equipment (SCADA)	50%

Over the last 3 months, due to the wet weather, projects have been delayed and are behind schedule.

No wet weather discharges from site, but if we receive more rain discharges could occur from our licenced discharge points. Currently we have two years worth of water stored onsite.

MAC group accommodation (150 cabins) in Narrabri has started construction. Rooms will be available for both mine related personnel and the general public.

Gas drainage concerns from some community members due to what happened in Pike River, New Zealand.

No report has been provided from New Zealand and will probably not be for months or even years. Narrabri Coal must comply with strict laws in relation to gas levels. Some of the measures we take are: real time gas monitoring measurements, physical inspections of the face for any sign of changes, ventilation surveys once a week and inspections undertaken by Statutory staff to make sure the mine is safe.

3.2 Environmental Overview

As per provided report.

4.0 Complaints and Complaints Hotline

As per provided report.

5.0 New Business

No new business

6.0 Next Meeting

Tuesday 5 April 2011, 4pm, Site Office

7.0 Closure of Meeting

Meeting closed 5.00pm

Narrabri Coal Mine Community Consultative Committee Meeting #11

Environmental Monitoring Report August 2010 – October 2010

Noise Monitoring

Attended noise monitoring was undertaken on the 28th September 2010 to verify if noise levels were within compliance limits. The results from this monitoring are detailed in the tables below.

Noise Monitoring Results – 28 September 2010 (Day)				
Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	2:30 pm	40	1.5 m/s NW	Traffic (40), birds (30), NCM inaudible
Naroo	2:48 pm	40	1.5 m/s NW	Birds & insects (39), NCM (31), traffic (30)
Claremont*	3:07 pm	33	1.5 m/s NW	Birds & insects (29), NCM (29), sheep (25)
Westhaven	No access due to construction activity			
Greylands	3:52 pm	41	1.5 m/s NW	Birds & insects (40), NCM (35)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

Noise Monitoring Results – 28 September 2010 (Evening)				
Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:32 pm	50	<1 m/s S	Traffic (49), birds & insects (41), NCM (27)
Naroo	8:12 pm	44	<1 m/s S	Frogs & insects (44), NCM inaudible
Claremont*	7:50 pm	34	<1 m/s S	Insects & frogs (34), NCM inaudible
Westhaven	9:02 pm	29	<0.5 m/s S	Insects & frogs (29), NCM (<20)
Greylands	9:25 pm	40	<0.5 m/s S	Insects (40), NCM (30)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

Noise Monitoring Results – 28 September 2010 (Night)				
Location	Time	dB(A), _{L_{eq}}	Wind speed/ direction	Identified Noise Sources
Bow Hills	10:01 pm	49	<0.5 m/s S	Traffic (48), birds & insects (42), NCM (28)
Naroo	10:20 pm	39	<0.5 m/s S	Frogs & insects (39), NCM inaudible
Claremont*	10:41 pm	30	<0.5 m/s S	Insects (30), NCM barely audible
Westhaven	11:03 pm	33	<0.5 m/s S	Frogs & insects (32), NCM (27)
Greylands	11:25 pm	38	<0.5 m/s S	Birds & insects (37), traffic (30), NCM (27)

* Correction of 4-8dB to be subtracted from the *mine noise component only* measured at "Claremont" boundary to estimate levels at "Kurrajong".

The results indicate that noise emissions from the mine were below the criterion of 35 dB(A), $L_{eq(15min)}$ at all receivers, with exception of “Greylands” day emission of 35 dB(A) recording equal to the limit.

During the day time survey construction activity in the vicinity of the “Westhaven” meant that safe access to the site was not possible. The day time monitoring was, therefore, not carried out. “Westhaven” is a project related residence.

In addition to the operational noise, the noise from the mine must not exceed 45 dB(A) $L_{1(1 min)}$ 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 measurement circuit the $L_{1(1 min)}$ noise from the mine did not exceed 45 dB(A) at any monitoring location.

Deposited Dust Monitoring

Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarah	ND7 Claremont	ND8 Claremont
November 2009	7.0	1.9	1.5	2.2	1.9	1.9	2.8	1.5
December 2009	15.4	10.3	2.3	3.1	1.9	1.9	1.7	1.8
January 2010	10.7	3.8	1.4	11.0	1.6	5.4	1.5	5.0
February 2010	5.2	1.3	1.2	2.9	1.6	2.3	0.9	2.0
March 2010	1.3	1.5	1.0	26.3	2.9	4.3	5.2	2.6
April 2010	1.4	1.0	1.4	36.1	1.4	0.8	4.5	2.1
May 2010	1.3	2.2	1.0	8.0	18.3	3.3	1.6	1.0
June 2010	1.0	1.4	4.8	16.0	7.8	2.2	3.0	1.2
July 2010	1.4	0.8	3.0	21.0	4.2	0.6	11.1	0.9
August 2010	0.6	1.6	4.7	19.4	1.7	1.0	0.6	0.4
September 2010	0.9	2.0	2.8	17.9	4.7	0.5	3.2	0.9
October 2010	0.7	4.9	1.0	24.9	3.2	1.4	0.9	0.8
Annual Average	3.9	2.7	2.2	15.7	4.3	2.1	3.1	1.7

Deposited dust results have remained at relatively low levels since the last meeting. The annual average has dropped at each location with the exception of ND4 (Matoppo).

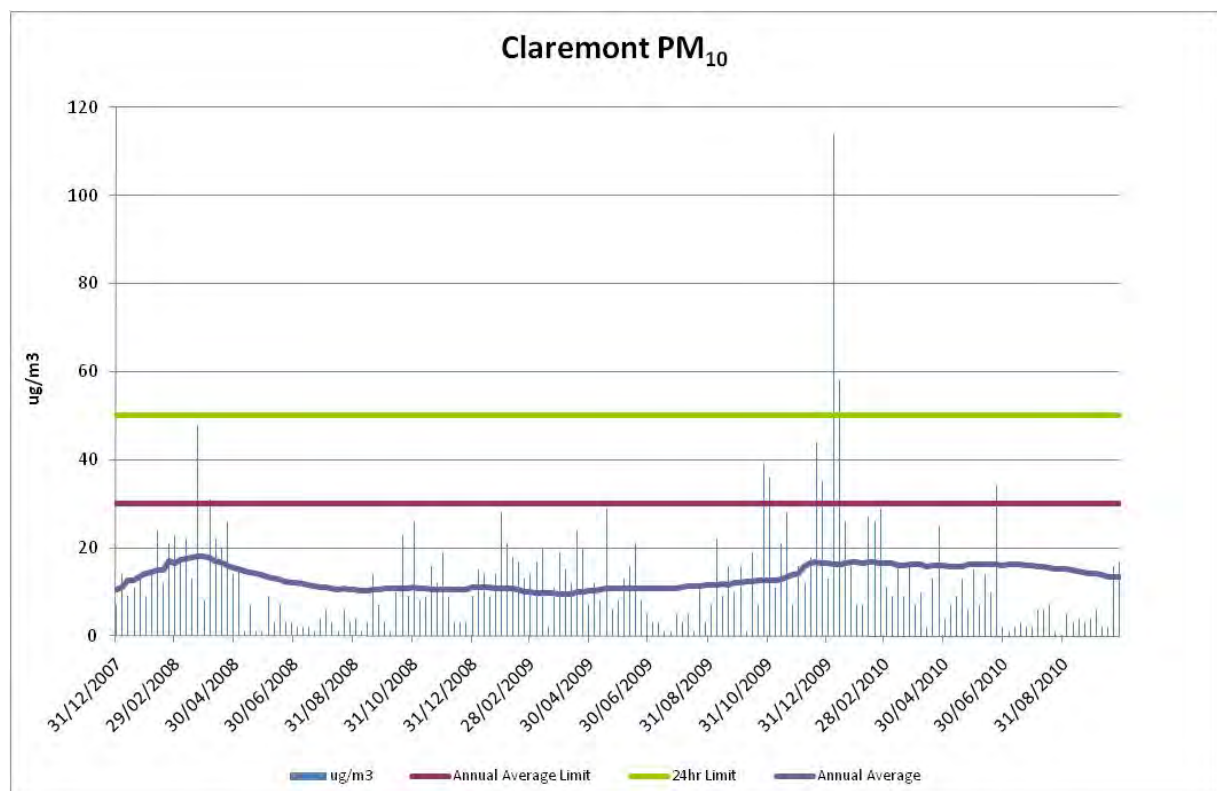
ND4 at Matoppo has returned elevated dust levels since January 2010. As previously discussed a burning drum located in close proximity to the dust gauge was thought to be the cause of the elevated levels. The burn drum has since been moved to the other side of the house. Despite this dust levels remained elevated at the monitor over August, September & October 2010. The residents have previously indicated that they do not find dust to be an issue so it has been suggested that the monitor be moved to a new location away from the house. It is expected that with a new location the monitor will provide more accurate results without interfering with the resident's activities.

Slightly elevated results were received at ND2 “Claremont” during October 2010 and ND3 “Bow Hills” during August 2010. However both sites remained well below the annual average limit of $4 \text{ g/m}^2/\text{month}$.

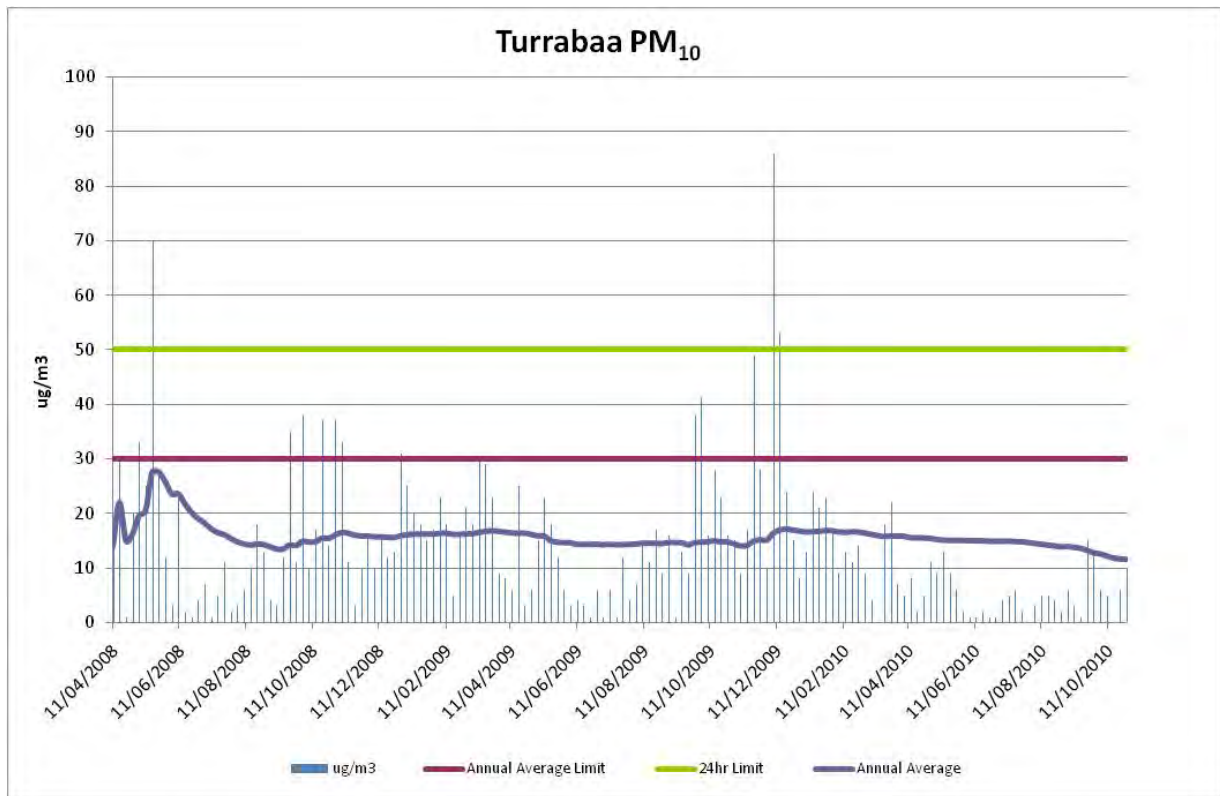
Currently, only two sites (ND4 & ND5) have an annual average that exceeds the annual average limit, compared to 5 sites at the last meeting. ND5 “Claremont” is only slightly in exceedance ($4.3 \text{ g/m}^2/\text{month}$) which can be explained by the elevated results over May to July 2010 caused by nearby earthworks at the time. The reduction in the number of monitoring locations exceeding the annual average criteria has shown that the now redundant September 2009 results (which were affected by regional dust storms) had a significant influence on elevating the average result calculation.

High Volume Air Sampling (PM_{10})

PM_{10} measurements taken to date for the “Claremont” High Volume Air Sampler is returning a running annual average of $13.38 \mu\text{g/m}^3$ which is well below the annual average limit of $30 \mu\text{g/m}^3$.



PM_{10} measurements taken to date for the “Turrabaa” High Volume Air Sampler is returning a running annual average of $11.54 \mu\text{g/m}^3$ which is also well below the annual average limit of $30 \mu\text{g/m}^3$.

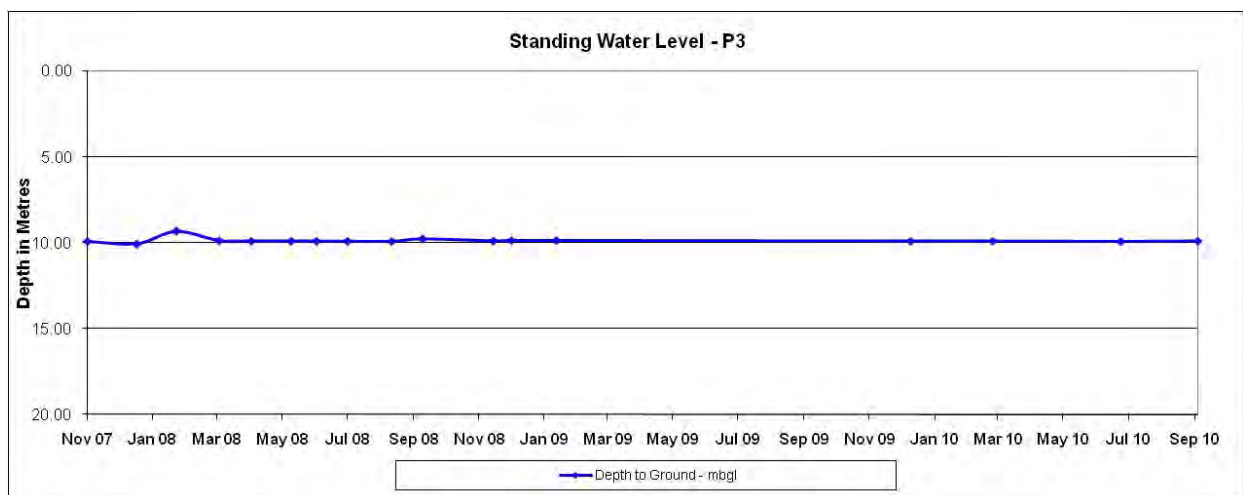
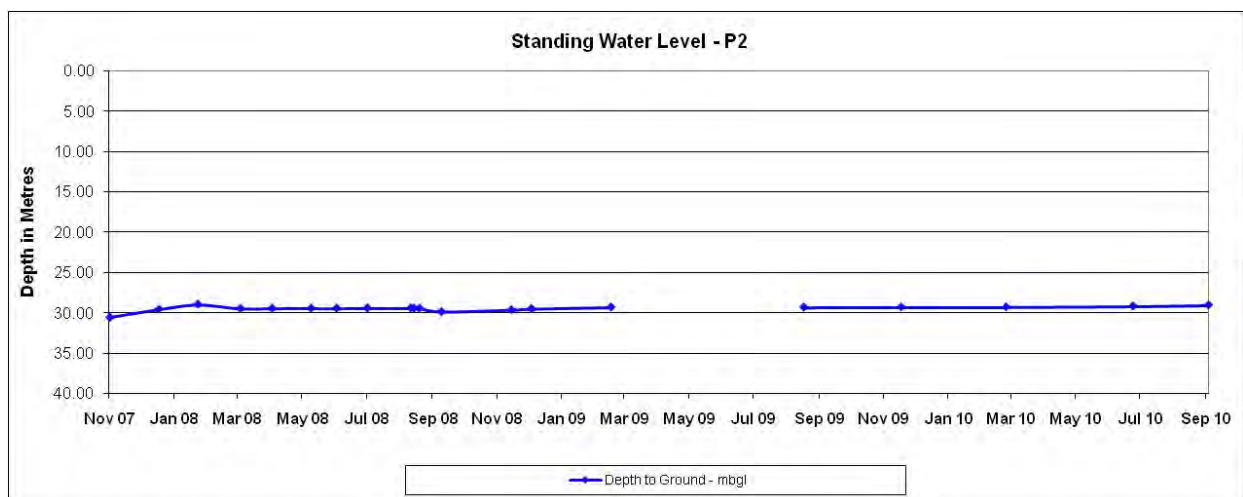
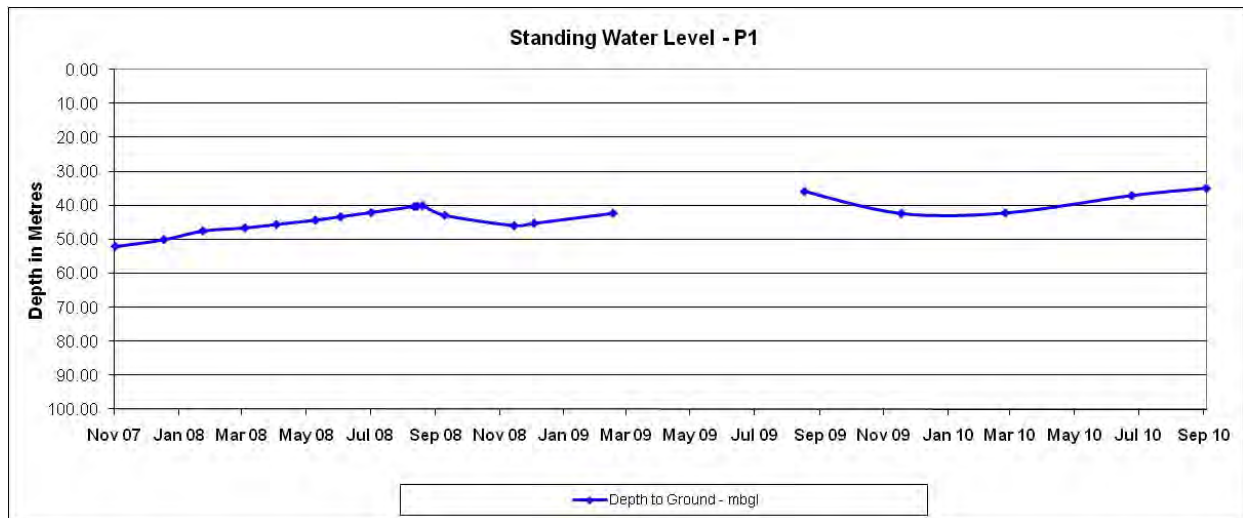


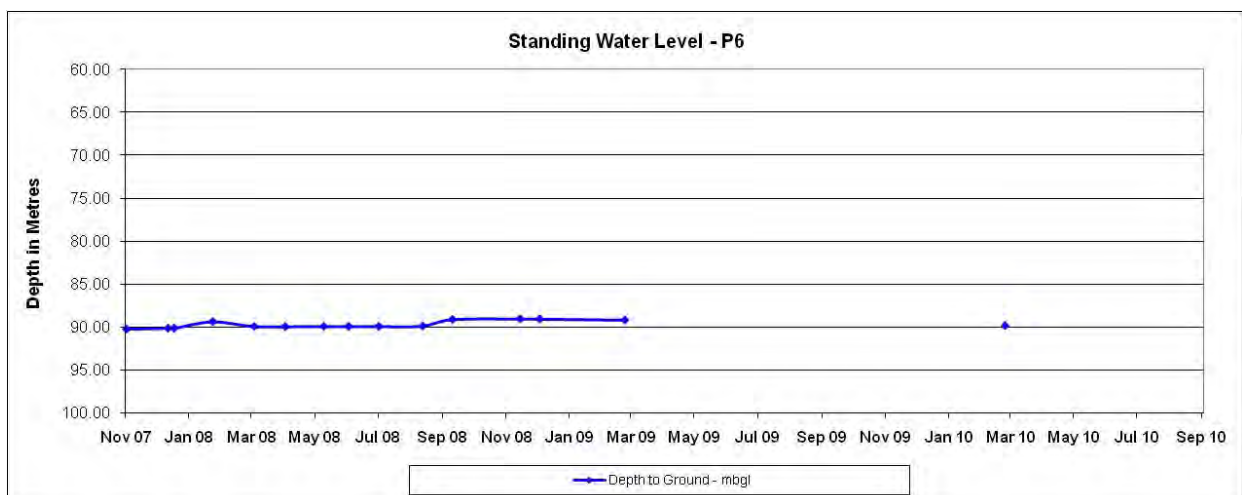
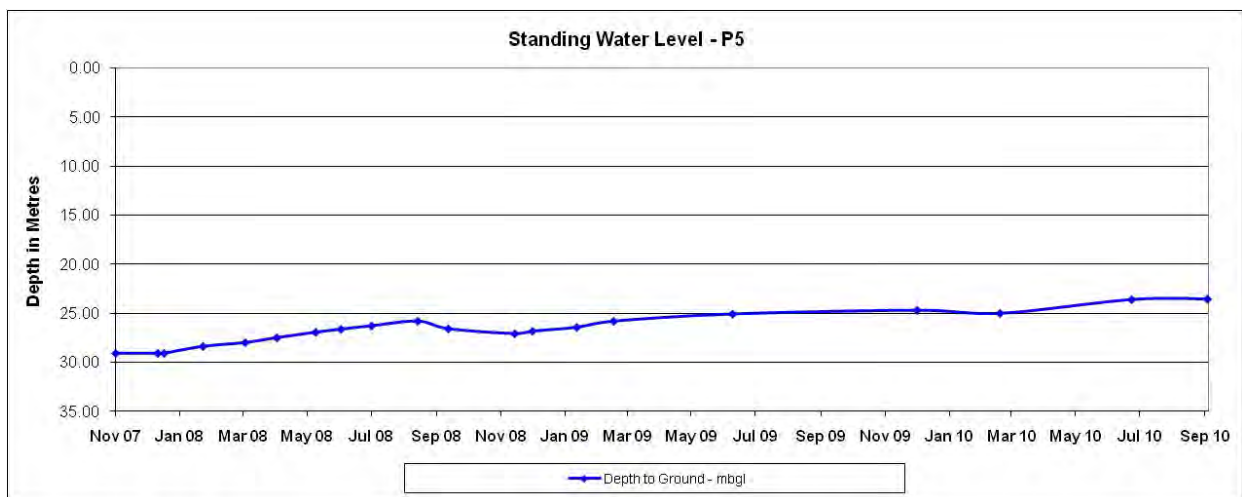
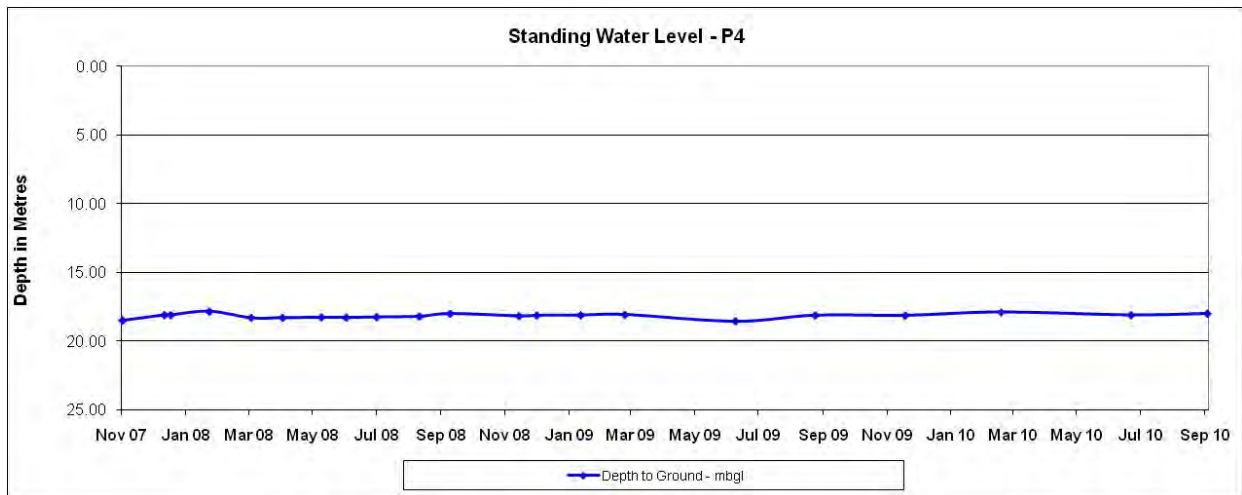
PM₁₀ levels have remained compliant over the past month.

Groundwater Monitoring

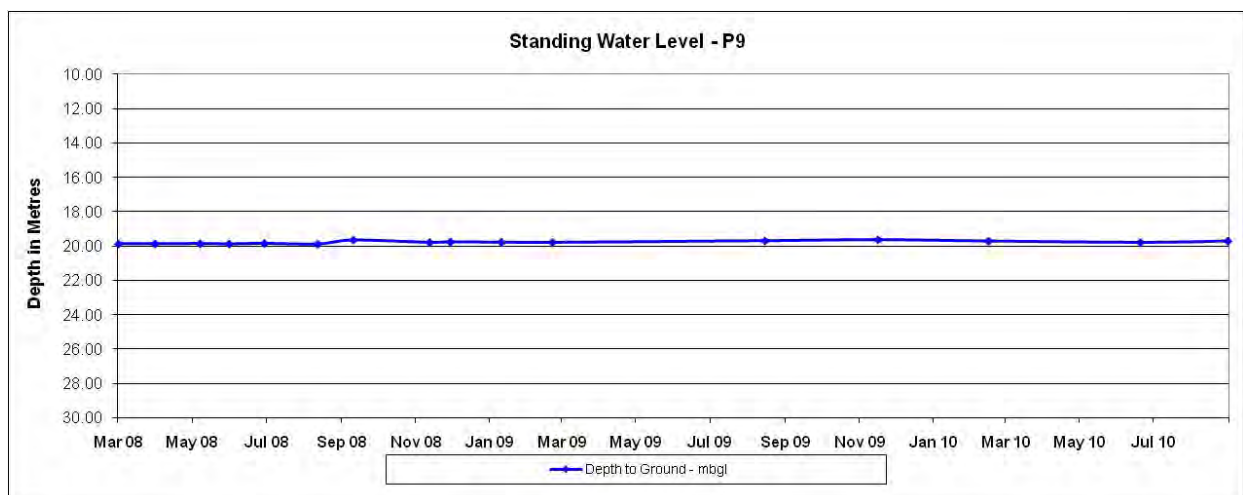
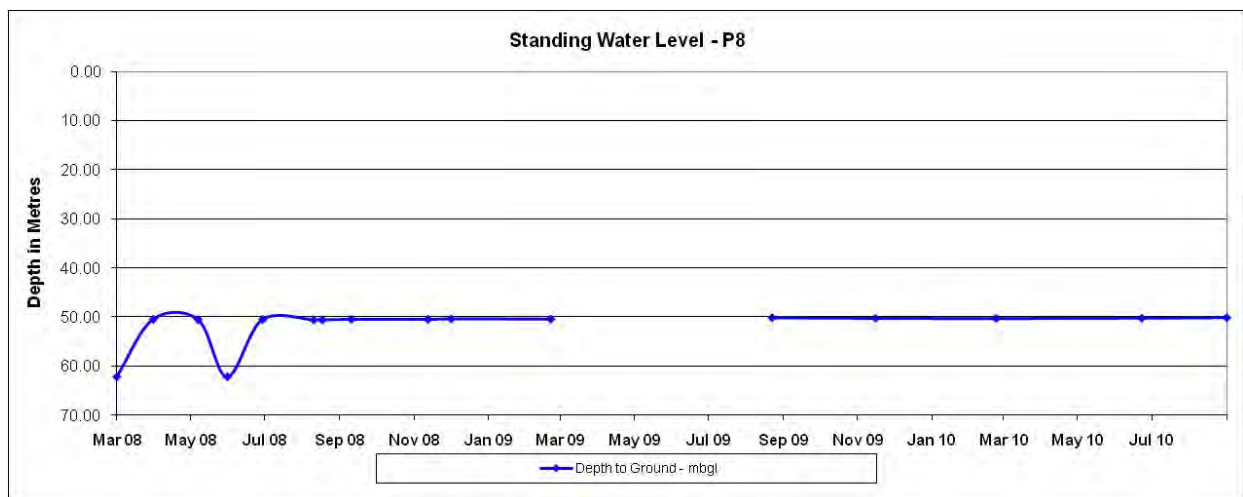
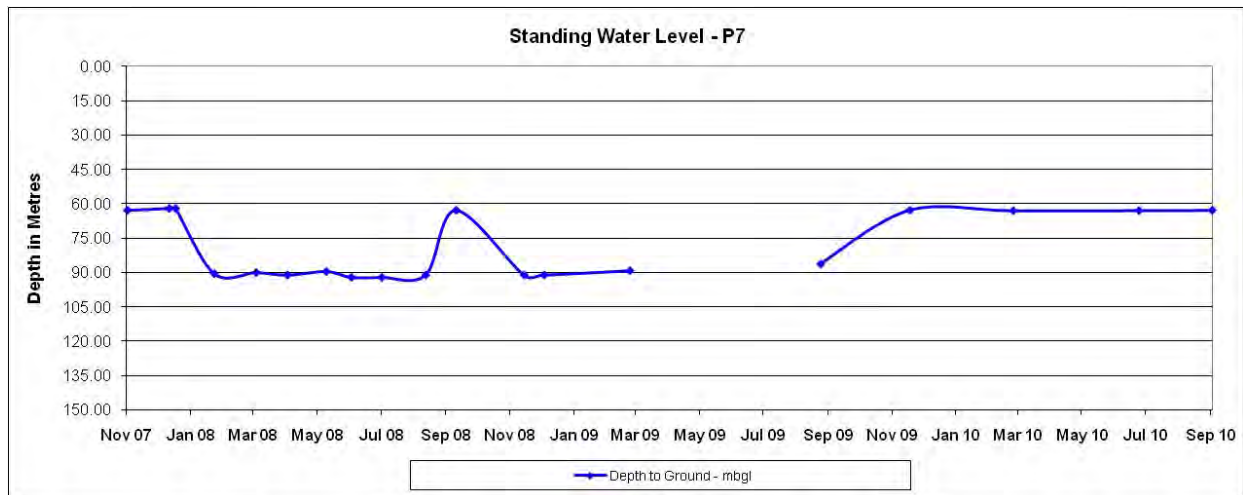
The graphs below show the SWL trends at each site since monitoring commenced. Groundwater levels have remained relatively constant over the last 9 months with the exception of P18 and P20. These piezometers are located approximately 1.5km north-east of the surface facilities and the drop in SWL is likely associated with water extraction from the coal seam.

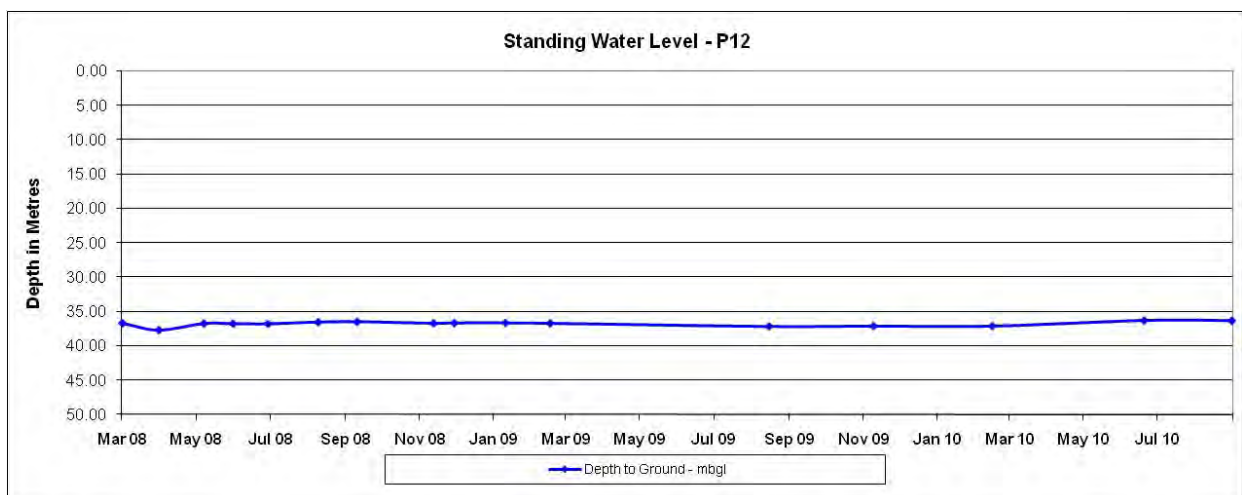
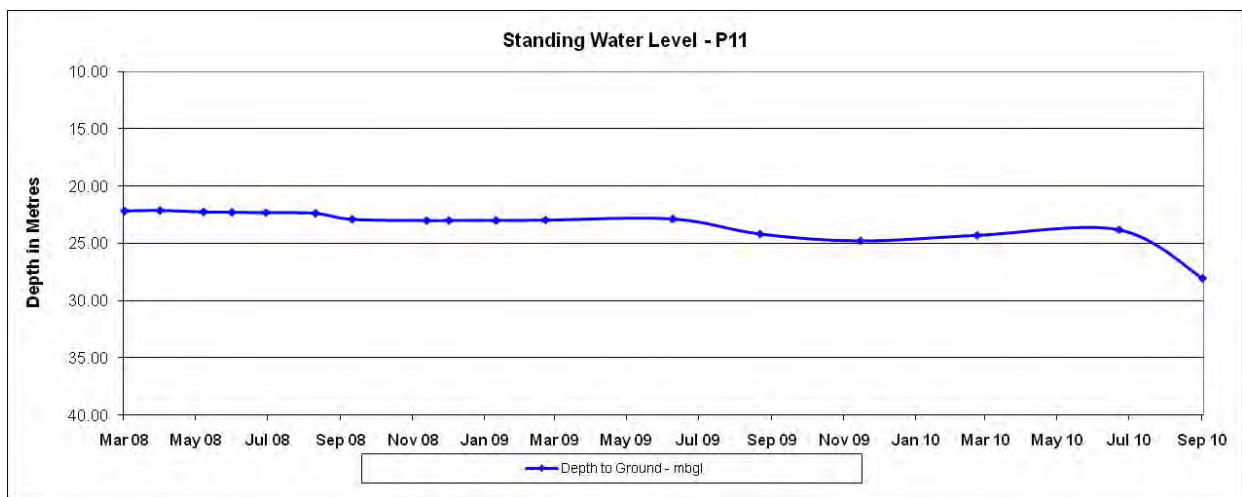
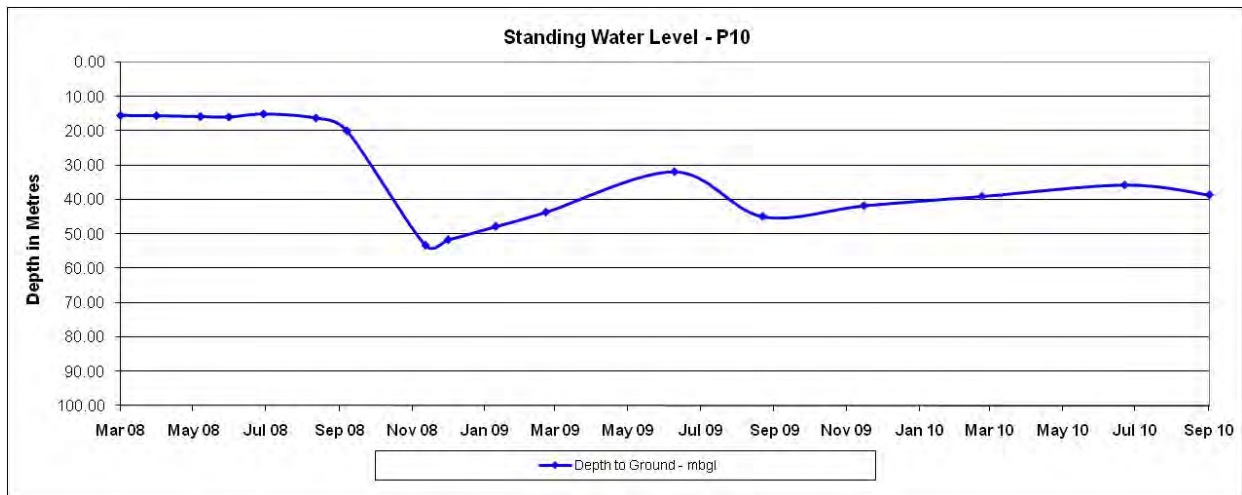
P1 has risen 15-20m since the start of the year which is likely due to recharge associated with the ongoing wet weather. In contrast, P10 has slightly dropped by 2.9m and P11 by 4.2m. The drop in SWL at these piezometers is not expected to be mining related with both locations being 5km south of the active mining area. It is therefore assumed that water from these points has been extracted for farm use over the period. Continued monitoring will determine any future trends with results displayed and discussed in the next report.

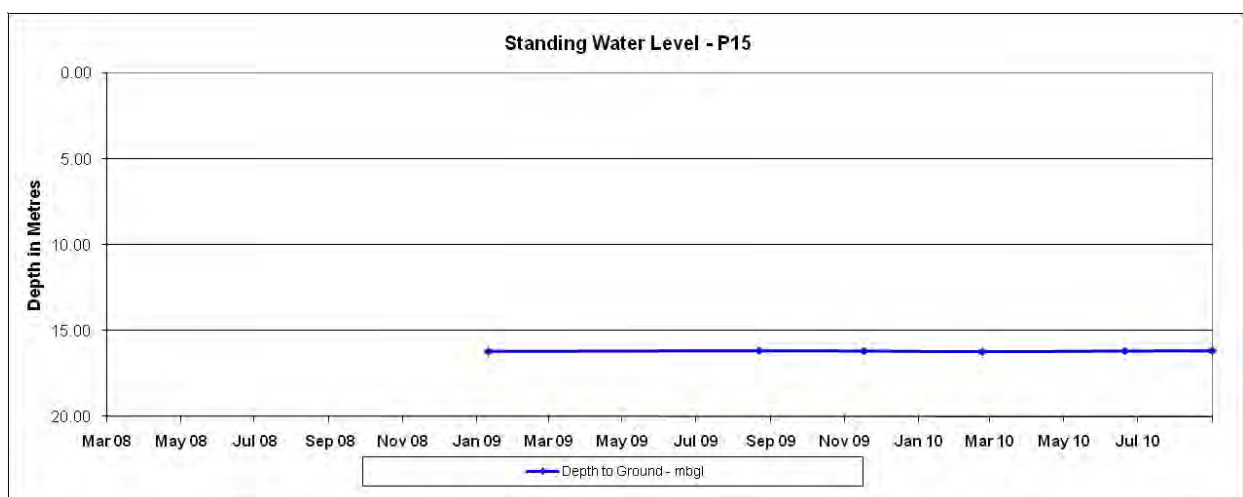
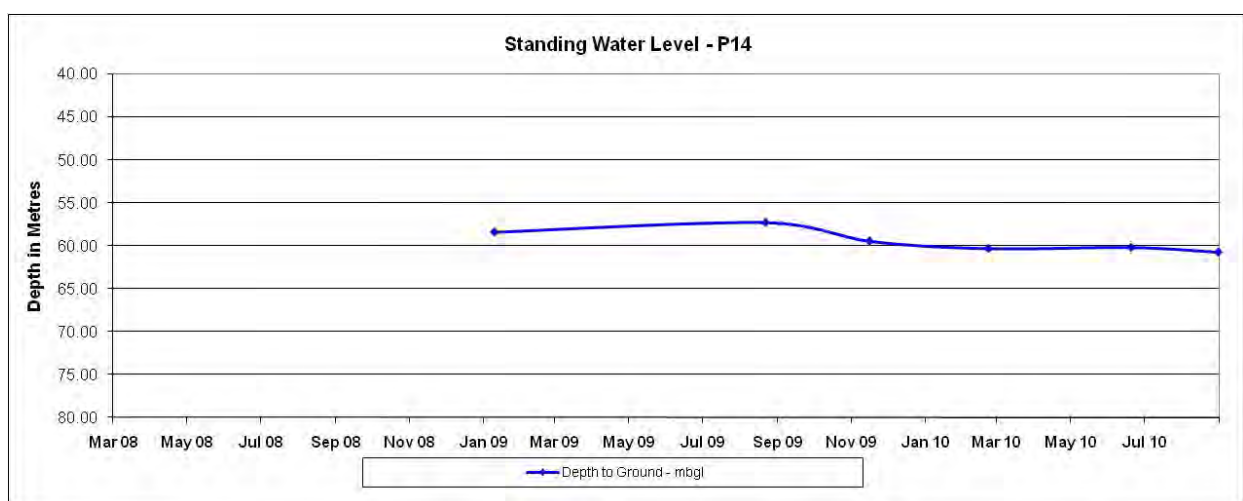
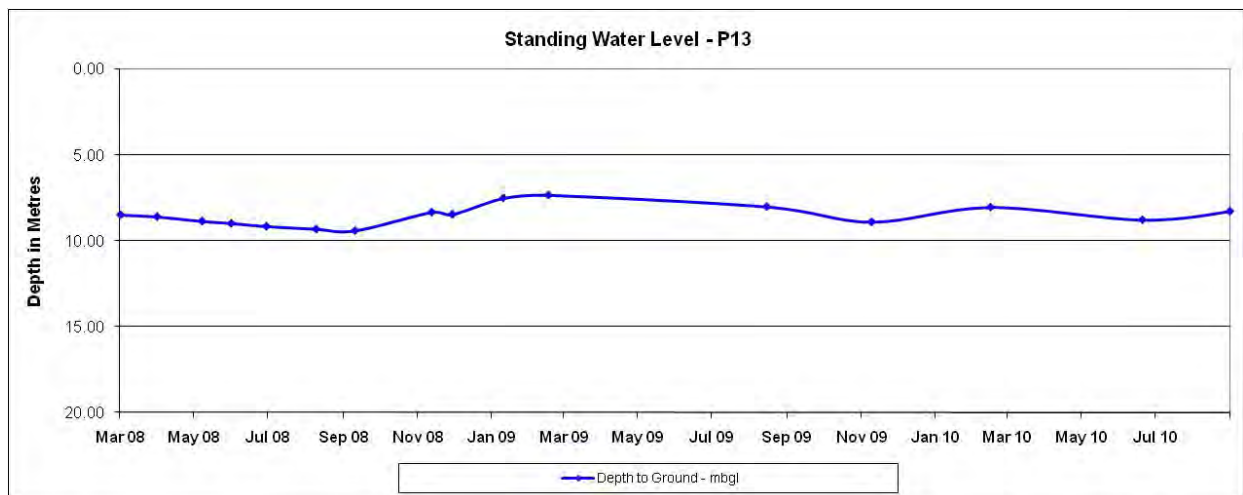


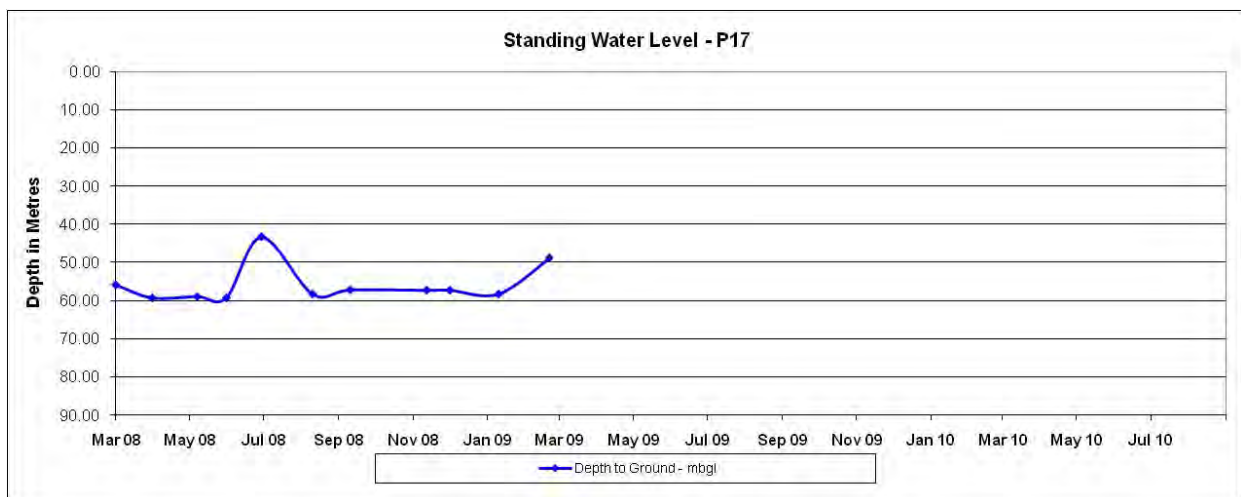
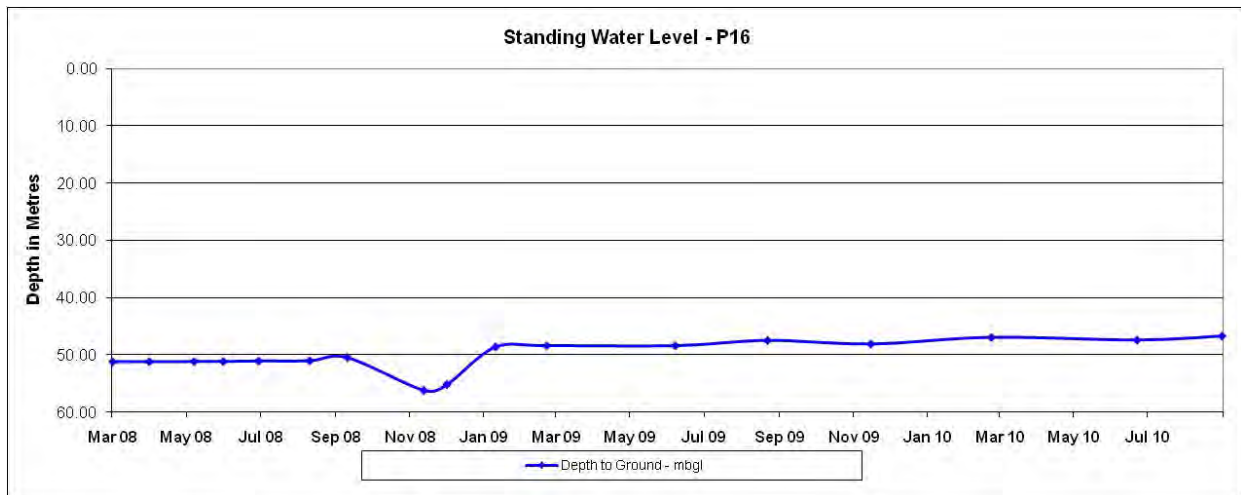


*P6 – Dry

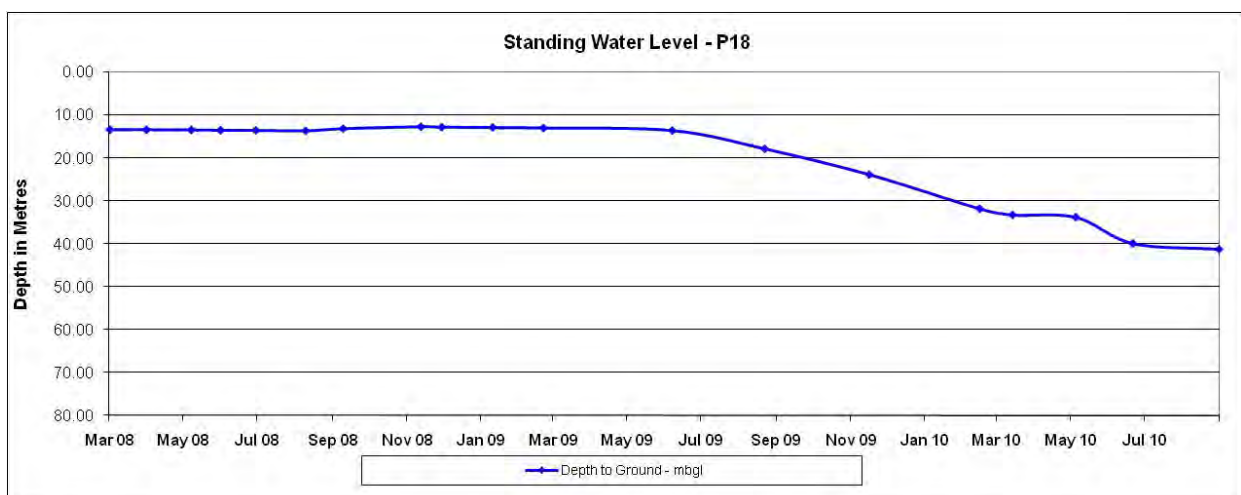


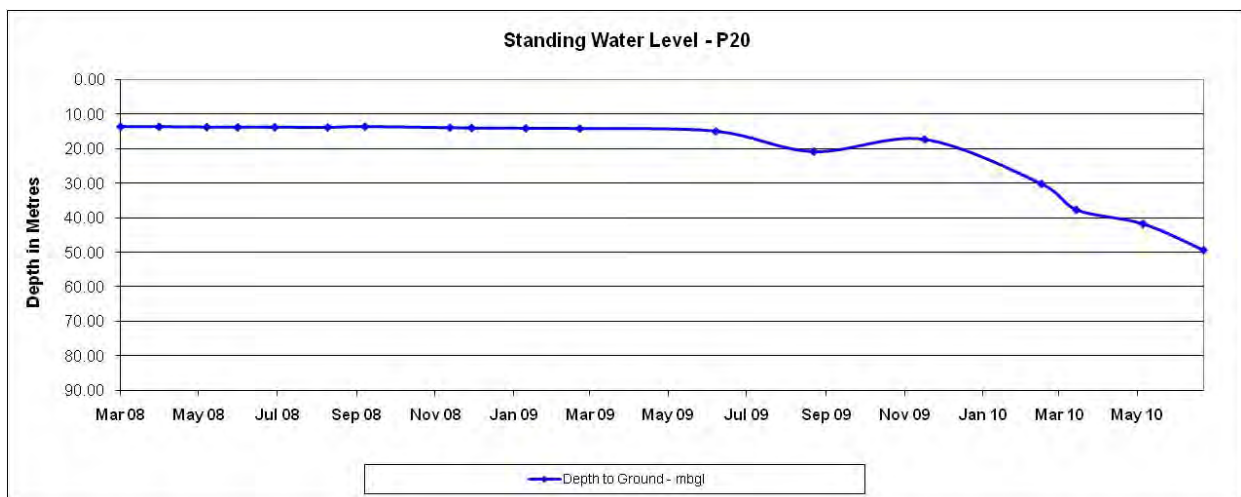
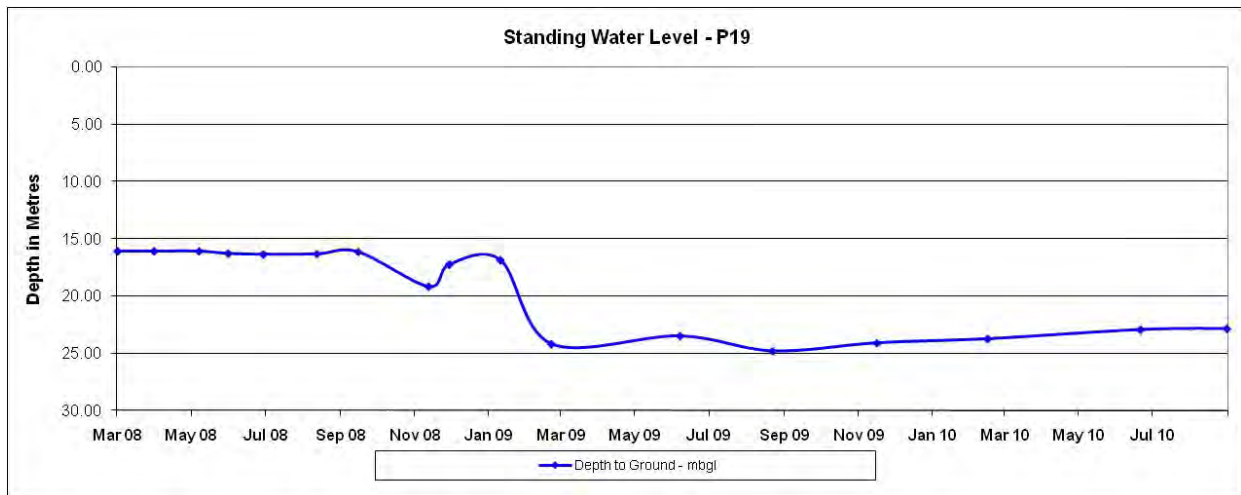






***P17 - Dry**





*P20 Cemented up

Surface Water Monitoring

No wet weather discharges have occurred during the last 3 months. However, monitoring of surrounding creek points whilst they are flowing has occurred to obtain baseline water quality data. Generally results from the upstream and downstream points remained consistent. Although no concentration limits apply to these points some elevated results were recorded for Total Suspended Solids (TSS) and Electrical Conductivity (EC).

On the 10th and 28th of August 2010 KC1US recorded a TSS of 2760 mg/L and 1600 mg/l respectively. Given the upstream location of the point the elevated TSS is not expected to be mining related and more likely a result of natural runoff from the landscape. This is further proven with corresponding downstream points recording a TSS of 380 mg/L and 146 mg/L respectively.

On the 10th September 2010 an elevated EC of 955 μ S/cm was recorded at the downstream point KC1DS. In comparison the corresponding upstream point recorded only 154 μ S/cm. Because there have been no discharges on site the

increase in EC is unlikely to be caused by mining activities. Monitoring will continue to determine if the EC drops next time the creek is flowing.

Routine monitoring of onsite dams was conducted in August 2010 to obtain background water quality data. The results suggest acceptable levels of pH and Oil & Grease, however TSS levels at discharge points SD2 & SD4 were above 50mg/L. Although no concentration limits apply until discharge actually occurs, given recent rainfall a discharge event may occur if the site continues to experience wet weather. Arrangements have been made to take a pre sample at all dams. Upon receiving results a liquid flocculent may be used if required to bring TSS levels below criteria before the possibility of any discharge.

Complaints

One complaint has been received since the last meeting, as detailed below.

9th September 2010:

The complaint involved a phone call to General Manager (Greig Duncan) about noise from the mine site. The complaint was immediately referred to the Environmental Manager (Danny Young) and the complainant was contacted by phone on the 10th September 2010. It was indicated that they had noticed a steady increase in noise levels from the mine and could clearly hear heavy machinery operating over the last couple of days. The complainant was satisfied with the Environmental Manager's proposal to undertake noise monitoring at the property. The monitoring will incorporate both attended noise monitoring and the use of a real time, portable noise monitor recently purchased by Whitehaven.

Rehabilitation

The planting of 300 tubestock on "Bow Hills" and an avenue of 60 Kurrajongs along the permanent access road to the vent pad (near Claremont house) has occurred over the period. 160 Native Orange seedlings have been propagated from local seed source and will be planted on various locations around site in the near future. This will be the first step towards re-establishing the species within the area.