

Narrabri Coal Project Community Consultative Committee Meeting #6

Environmental Monitoring Report May 2009 – July 2009

Noise Monitoring

Attended noise monitoring was undertaken on the Tuesday 23rd June 2009 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 2009 (Day)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Naroo	4:02 pm	44.2	Calm	School bus (43), Traffic (38), NCM Inaudible
Claremont*	4:25 pm	36.9	Calm	Birds (36), NCM (<25)
Westhaven	4:44 pm	30.2	Calm	Birds (29), NCM (24)
Greylands	5:03 pm	38.3	Calm	Train (36), Birds (34), NCM inaudible
Bow Hills	4:02 pm	41.4	Calm	Traffic (41), Birds (31), NCM inaudible

* 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 2009 (Evening)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	8:11 pm	41.4	0-0.3m/s W	Traffic (41), NCM (31)
Naroo	8:28 pm	51.9	0-0.3m/s W	Train (49), Traffic (46), NCM (30)
Claremont*	8:46 pm	33.3	0-0.3m/s W	Traffic (30), NCM (29)
Westhaven	9:11 pm	28.0	0-0.3m/s W	NCM inaudible
Greylands	9:28 pm	43.5	0-0.3m/s W	Insects (46), NCM (23)

* 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 2009 (Night)

Location	Time	dB(A),L _{eq}	Wind speed/ direction	Identified Noise Sources
Bow Hills	10:41 pm	45.5	0-0.3m/s W	Traffic (45), NCM inaudible
Naroo	10:53 pm	41.0	0-0.3m/s W	Traffic (40), Insects (30), NCM inaudible
Claremont*	11:10 pm	35.9	0-0.3m/s W	Traffic (32), Sheep (32), NCM (24)
Westhaven	11:33 pm	32.1	0-0.3m/s W	Car (31), NCM inaudible
Greylands	11:46 pm	40.4	0-0.3m/s W	Traffic (40), Insects (30), 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 attended noise monitoring results demonstrate compliance at all receivers throughout the survey.

Unattended noise monitoring was also undertaken in June 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.

In addition to the regular round of attended and unattended noise monitoring, Narrabri Coal completed a monitoring event using a Barn-Owl real time directional noise monitor at the Kurrajong/Claremont boundary during May/June in response to ongoing noise complaints associated with the “Kurrajong” property. A formal report has been issued from Spectrum Acoustics identifying that throughout the monthly survey, noise levels were within compliance limits at the “Kurrajong” residence. The methodology used to determine noise level at “Kurrajong” was approved by the Department of Environment and Climate Change (DECC) Noise Policy Branch as the best available methodology on the basis that access to the “Kurrajong” property was unavailable for monitoring. Copies of the report have been issued to both the DECC and Department of Planning as well as to Mark Lennox at “Kurrajong”.

Deposited Dust Monitoring

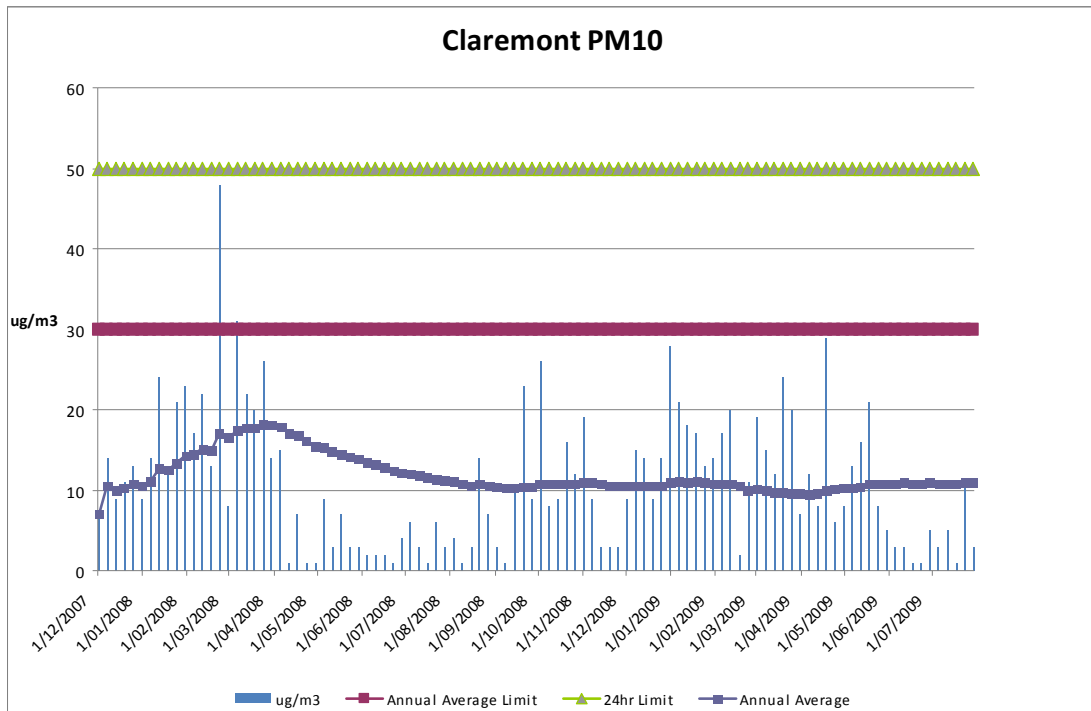
Month	ND1 Turrabaa	ND2 Claremont	ND3 Bow Hills	ND4 Matoppo	ND5 Claremont	ND6 Willarath	ND7 Claremont	ND8 Claremont
August 2008	1.2	0.5	3.6	1.6	3.3	0.4	0.5	0.5
September 2008	3.8	1.4	1.4	8.6	4.3	1.0	0.8	0.6
October 2008	28.6	0.8	0.8	10.9	1.9	4.6	0.9	0.6
November 2008	13.1	1.6	0.9	24.9	1.3	1.5	1.4	0.1
December 2008	2.2	1.3	0.8	15.6	1.5	2.3	1.1	0.1
January 2009	3.2	2.3	1.4	27.9	1.9	2.6	0.8	1.6
February 2009	1.8	1.9	0.5	9.4	2.0	13.8	1.0	3.5
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
Annual Average	4.86	2.16	2.29	12.18	5.93	3.3	1.82	1.4

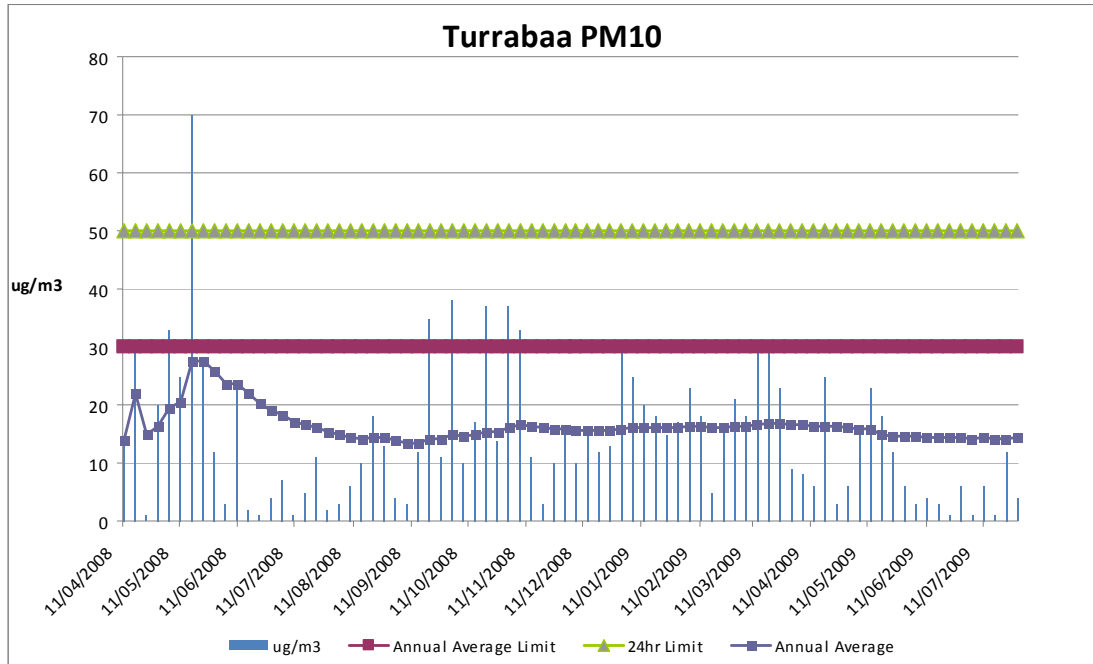
Deposited dust results have generally improved since the previous CCC meeting. The laboratory reports identified sample contamination (plant material, bird droppings, insects etc) for all outlier results recorded for ND3, ND4, ND5 and ND7 during the period since the previous CCC meeting. It is therefore considered that the high deposited dust readings are more likely to be associated with contamination and not necessarily connected to operations at the Narrabri site.

High Velocity Air Sampling (PM10)

PM10 measurements taken to date for the Claremont High Velocity Air Sampler is returning a running annual average of 10.89 $\mu\text{g}/\text{m}^3$ which is well below the annual average limit of 30 $\mu\text{g}/\text{m}^3$. The highest reading from this sampler remains at 48 $\mu\text{g}/\text{m}^3$ as measured on 23rd February 2008.

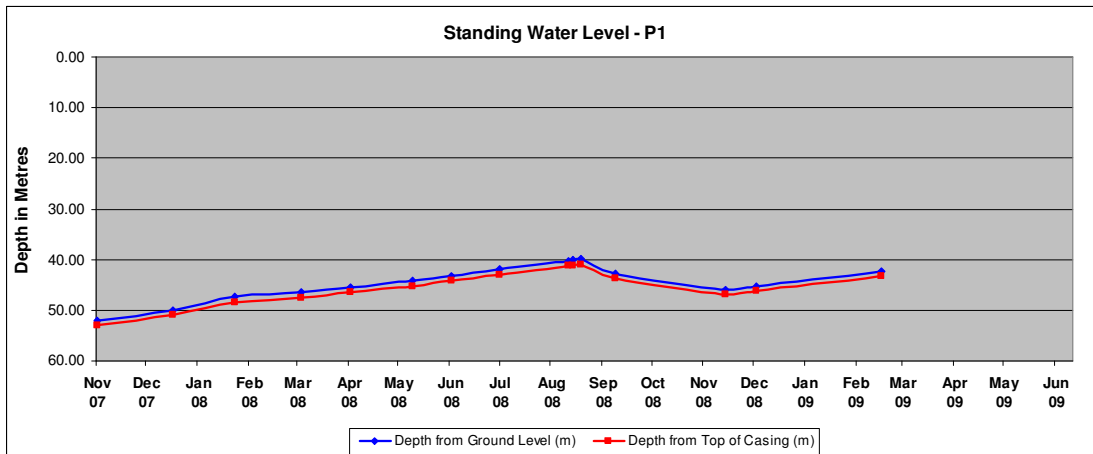
PM10 measurements taken to date for the Turrabaa High Velocity Air Sampler is returning a running annual average of 14.33 $\mu\text{g}/\text{m}^3$ which is well below the annual average limit of 30 $\mu\text{g}/\text{m}^3$. The highest reading from this sampler remains at 70 $\mu\text{g}/\text{m}^3$ as measured on 17th May 2008.

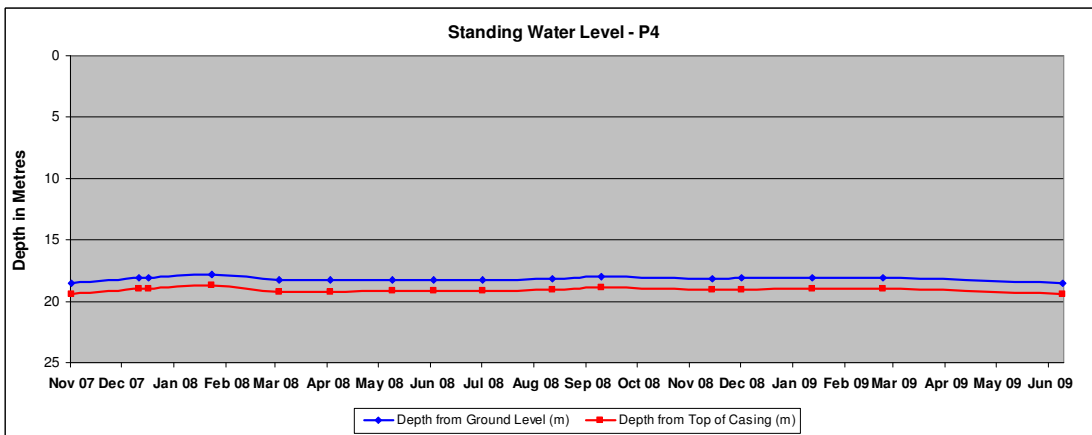
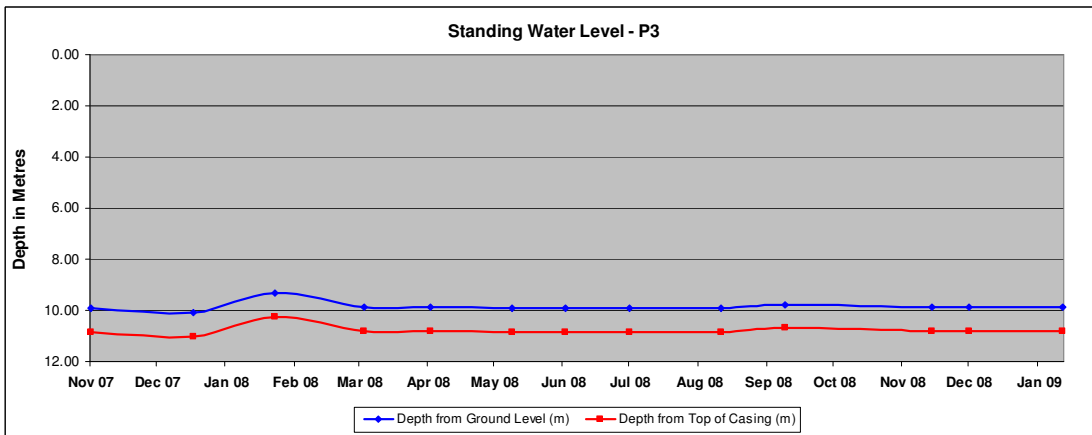
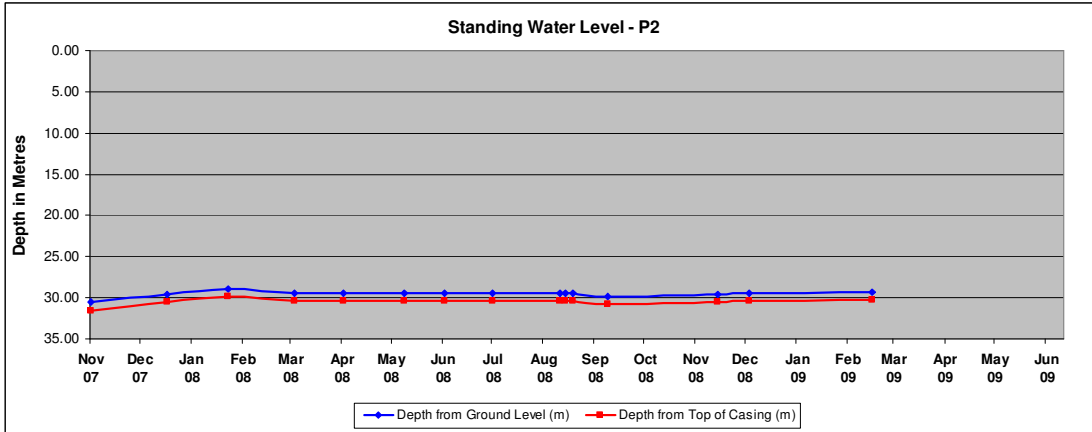


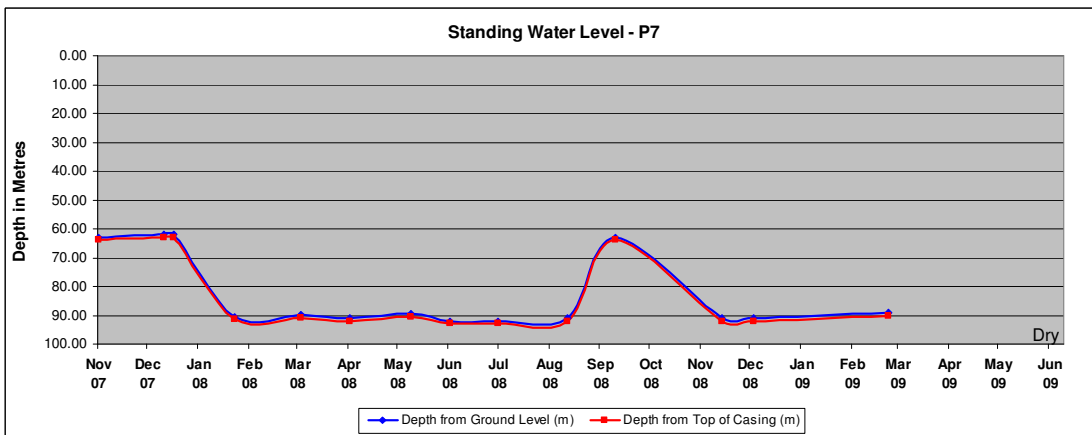
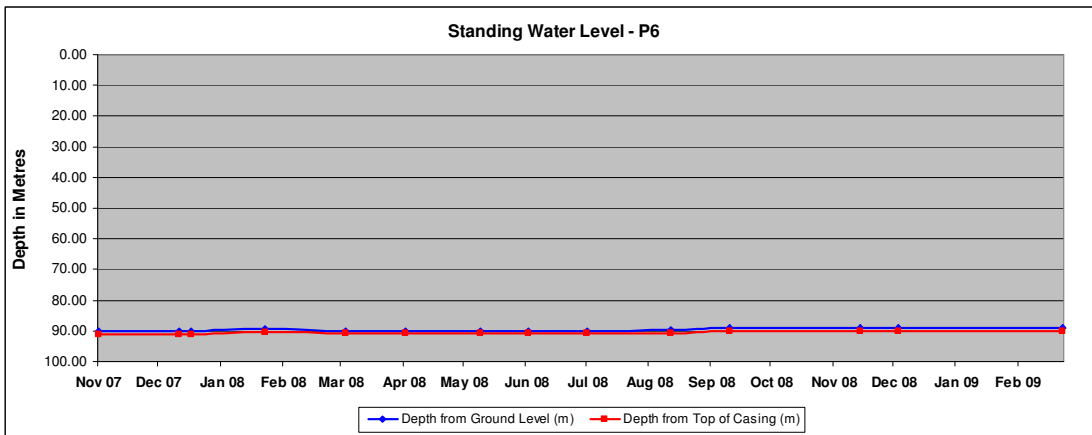
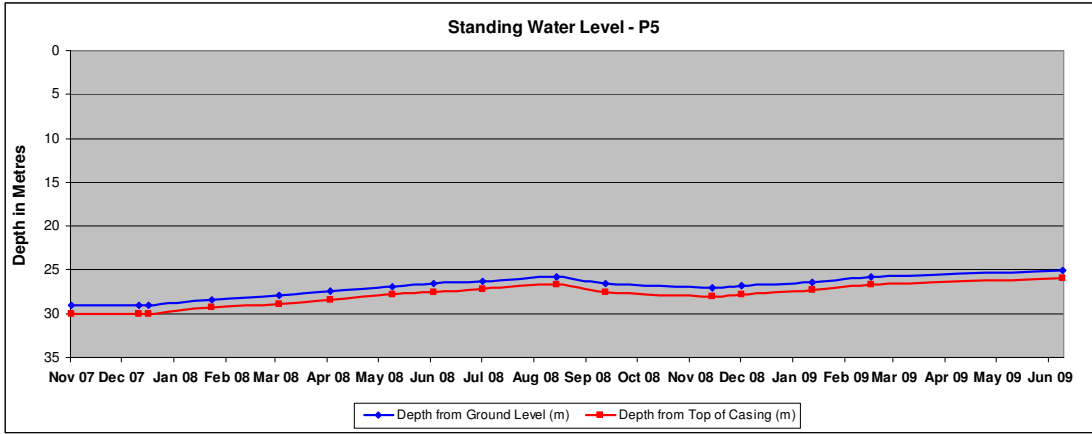


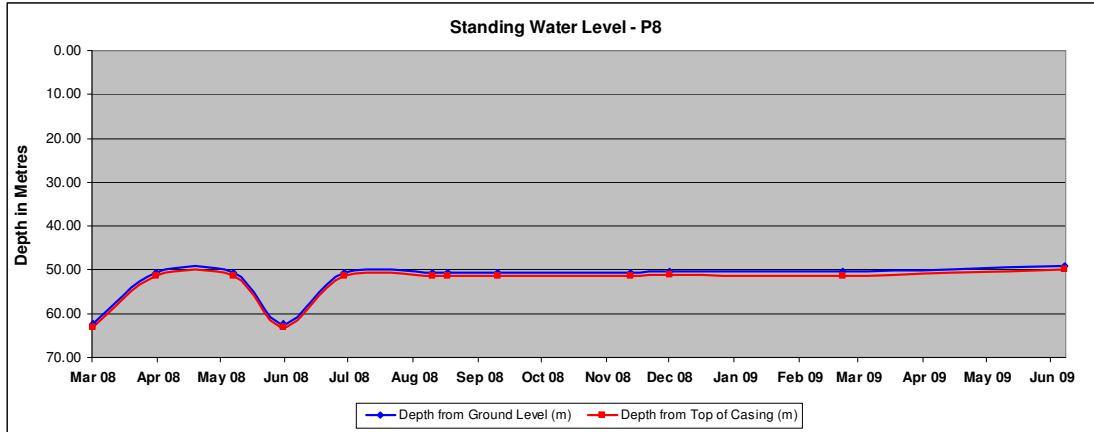
Groundwater Monitoring

The most recent groundwater monitoring event was conducted in June 2009. A number of locations were not monitored (due to issues with access) or not assessed for Standing Water Level (due to lack of appropriate equipment for the depth of the bores/piezometers). These issues have since been rectified and a full suite of groundwater monitoring is currently being conducted. Recorded Standing Water Levels to date are provided below.

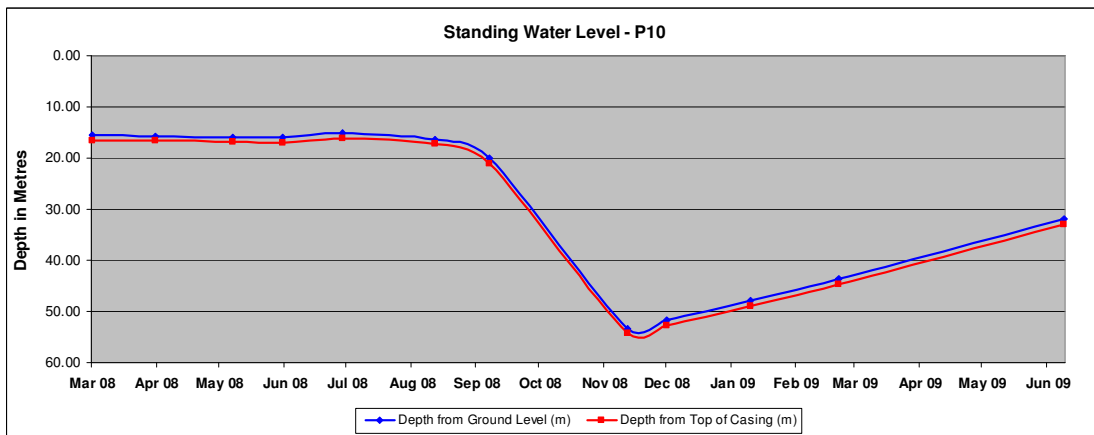
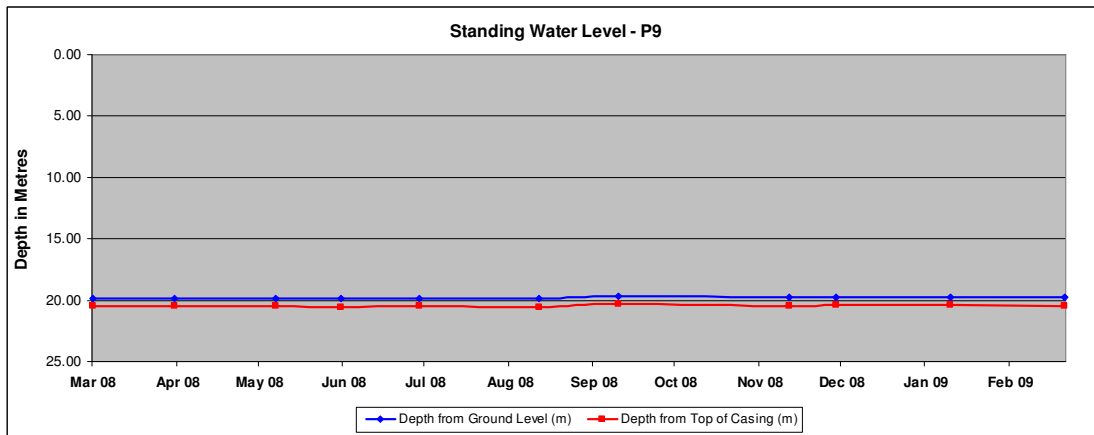


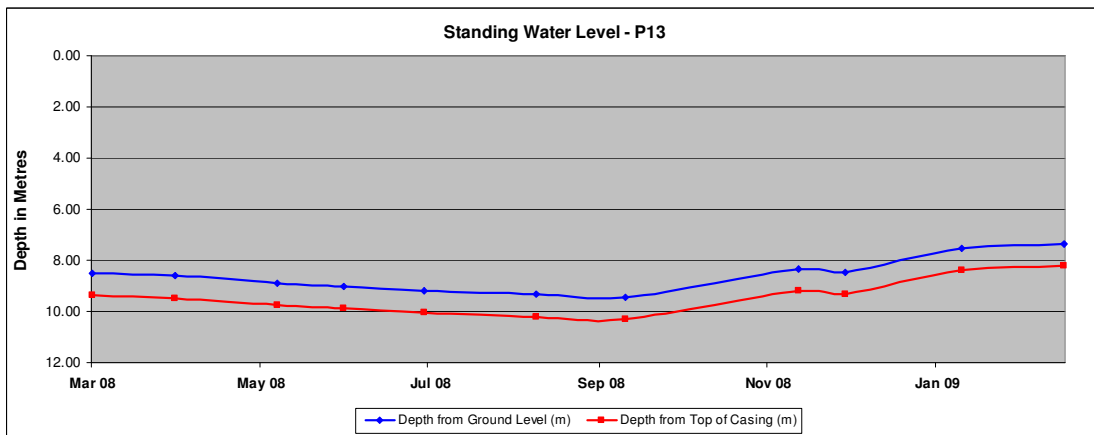
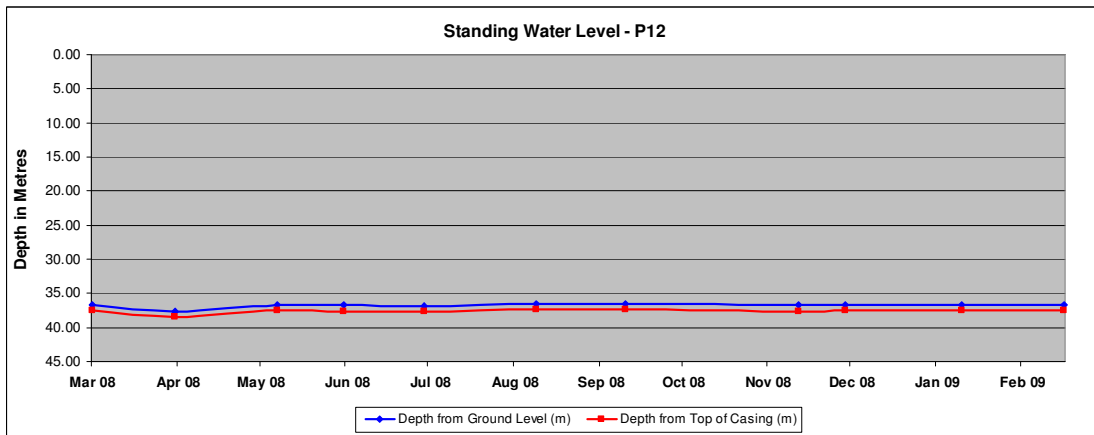
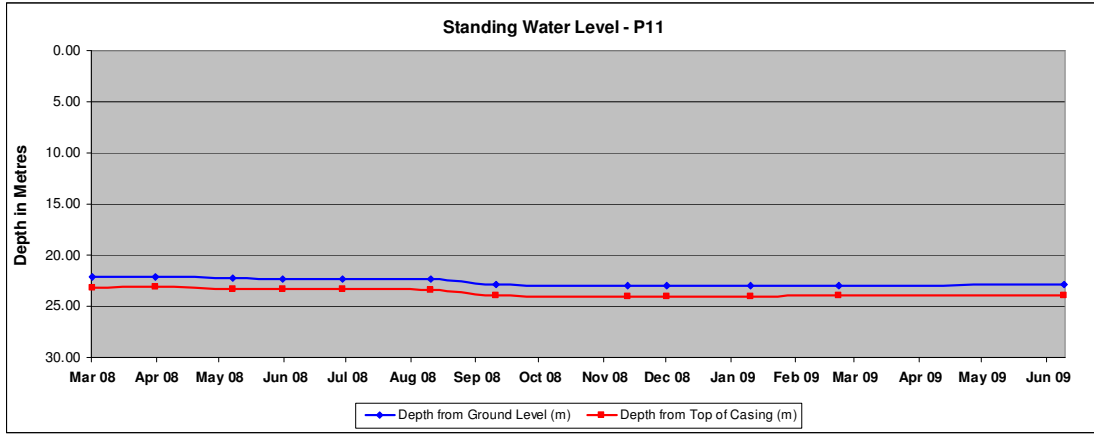


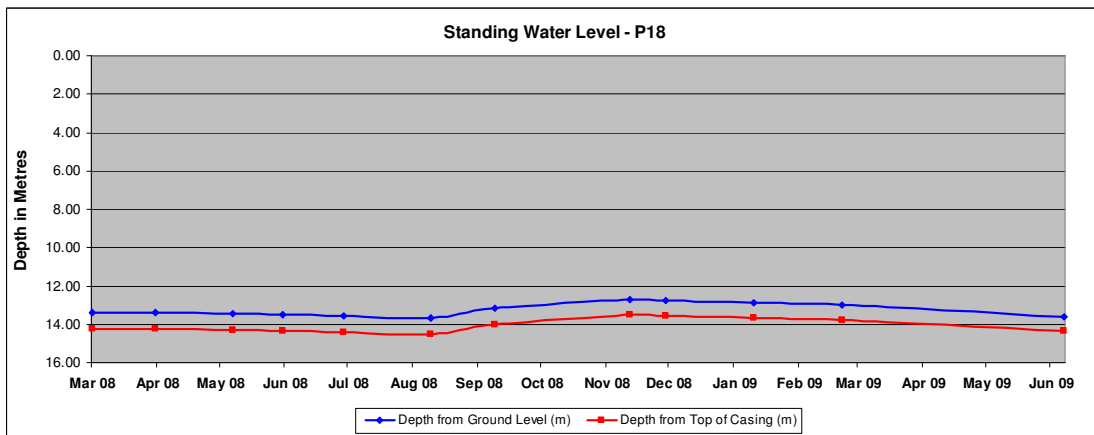
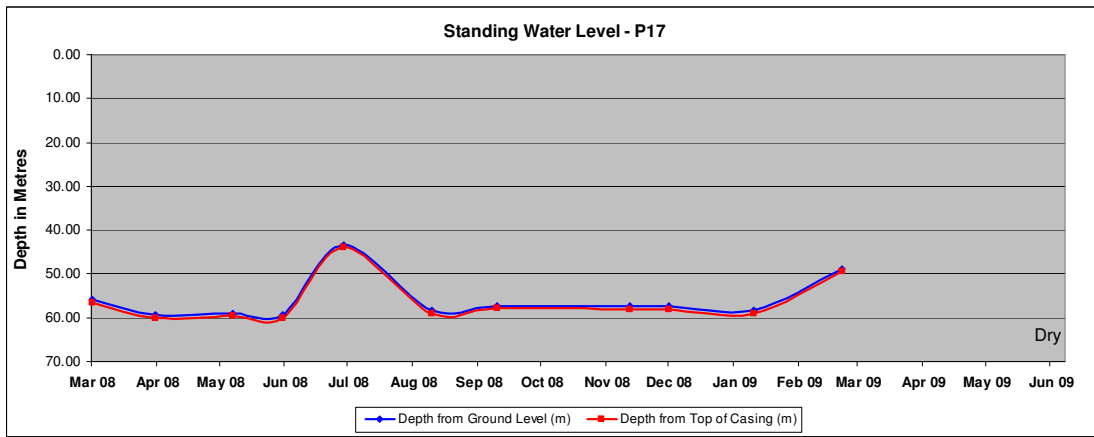
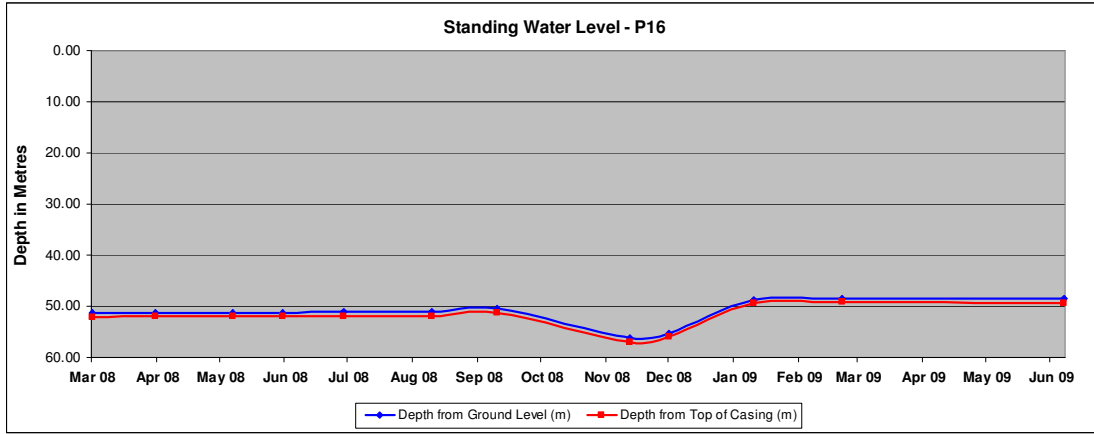


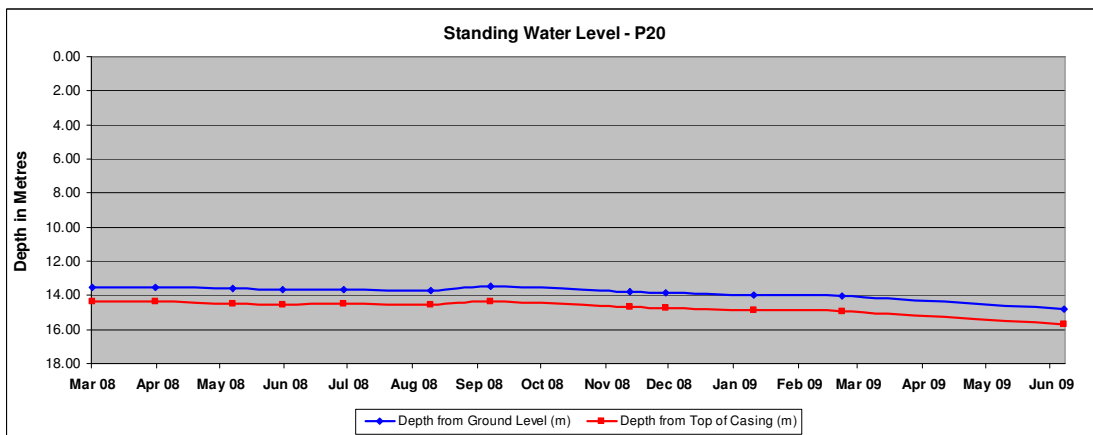
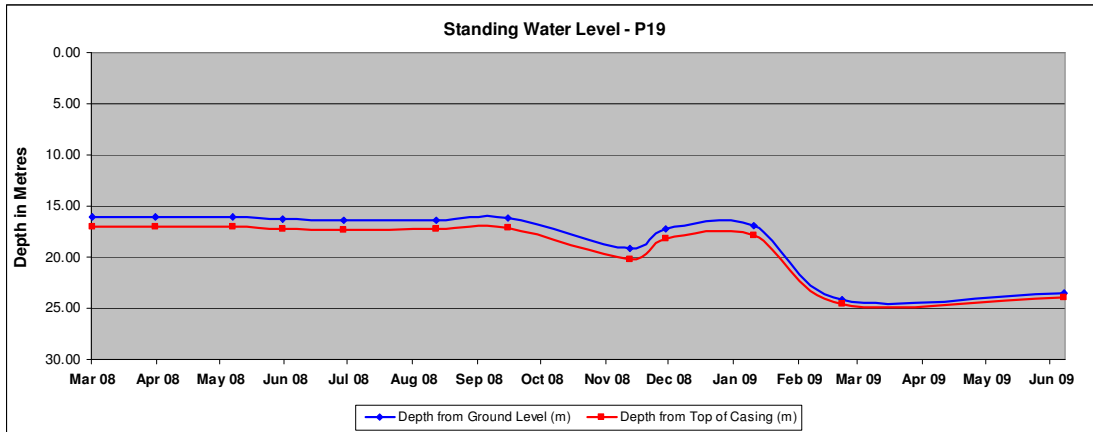


* June 2009 depth greater than 50m (dip tape length exceeded)









The groundwater monitoring results have not changed significantly since the last meeting.

Surface Water Monitoring

No wet weather discharge events have occurred since the previous CCC meeting. Narrabri Coal has recently been issued a revised Environment Protection Licence from the DECC which now includes licensed surface water discharge locations and concentration thresholds. As a consequence Narrabri Coal is now required to sample any discharge waters from these locations to assess concentration thresholds are met.

Routine monitoring of water storages onsite was conducted in June 2009.

Complaints

No complaints have been lodged on the complaints line since the previous meeting. However, two complaints were made directly to the Project Manager, Ben

Bomford, who advised the Environmental Manager, and one was made directly to the Environmental Manager. These complaints are:

21 July 2009

Noise coming from the mine site described as a roaring noise with reversing alarms at approx 2:30am this morning.

Investigations confirmed hard rock boggers running from the drifts to the Box Cut would have been the main source of noise under inversion conditions. Review undertaken of machines on site without low frequency broadband alarms and new alarms ordered for fitment.

7 August 2009

Noise coming from the mine site described as a roaring noise first thing of a morning as well as reversing beepers.

As per the previous complaint – new broadband type alarms on order and awaiting fitment. Operations of boggers into the Box Cut confirmed as being on an as-needs basis only.

10 August 2009

Noise coming from the mine site described as a roaring noise first thing of a morning as well as reversing beepers.

Complaint investigated and request made to site to immediately discontinue ongoing operations with surface fleet that do not yet have low frequency broadband alarms fitted. Following this action, advice received from complainant that noise levels were significantly improved.

Rehabilitation

No additional rehabilitation works have been undertaken since the previous meeting. Significant weed control measures were undertaken adjacent to Kurrajong Creek for the control of ‘Mother of Millions’. All areas infested with this weed have now been treated and will be closely monitored for further outbreaks.

AEMR

Since the last meeting, Narrabri Coal has completed and submitted its Annual Environmental Management Report (AEMR) to the relevant government agencies. The Department of Planning has formally accepted and endorsed the AEMR. Narrabri Coal is currently awaiting advice from the Department of Primary Industries. A copy of the AEMR is submitted through the Chair of the CCC for member review.