

Minutes of the 8th Meeting of the Tarrawonga Coal Mine Community Consultative Committee

Meeting Held: Thursday 7th February at 4:35pm

Venue: The meeting held at Tarrawonga Coal Mine Training Room.

1. Present and Apologies

Present: Clr Ken Bates (Narrabri Shire Rep.) Chairman
Clr Colleen Fuller (Gunnedah Shire Rep.)
Mr Chris Burgess (Group Manager New Projects)
Mr Danny Young (Environmental Manager)
Mr Jason Conomos (Project Manager)
Mr Peter Laird (Community Rep)
Mr Bart Crosby (Community Rep)
Mr Sandy Bull (Community Rep)
Mr Bob McGregor (Community Rep)

Apologies: Mr Tony Jones (Community Liaison Officer)
Mr Casper Dieben (General Manager – Open Cut)

2. Previous Minutes

Minutes of the previous meeting held on 1st November 2007 were distributed and accepted as a true and accurate record of the previous meeting.

3. Business Arising

- 3.1** Noise monitoring in relation to road transport noise had been undertaken at the “Kyalla” residence prior to the previous meeting, however results had not yet been received.

The results obtained from Spectrum Acoustics confirmed that road transport noise levels obtained at 5:50pm on Monday 24th September was at 53.7 dB(A), which is under the road traffic noise criterion of 60dB(A) as defined in the consent.

- 3.2** Noise levels from prior monitoring had also indicated an exceedance in noise criteria on private sections of the haul road at the “Pine Grove” and “Ambardo” residences. The cause of the exceedance was described as being a result of trucks crossing the grids located at the intersection with Manilla Road. The grids have subsequently been removed to ascertain if this brings noise levels at these locations back into compliance. At

the time of the meeting, no additional noise monitoring results had been received to confirm if this had been successful.

Removal of the grids has not resulted in any significant issues relating to stock movements.

4.0 General Business

4.1 Mine Progress

Production from Tarrawonga over the last 3 months has generally been on target as per figures below:-

November – Target (123,998t) Actual (112,700t)

December – Target (98,726t) Actual (100,000t)

January – Target (87,075t) Actual (71,170t)

Constraints to production continue to be in relation to transport of product both via rail to Newcastle as well as delays in loading boats in Port. The derailment that occurred on the line near Breeza set the production and transport schedule back by 1 week, with 2 trains/day still not sufficient in clearing the backlog of product coal. This has resulted in the cut back in some shifts to cut back on production until the backlog is cleared. It also requires the balancing of stockpiles on site to avoid excess coal stockpiling at the Gunnedah CHPP.

The upgrade to the rail line and passing loop in Gunnedah has now been completed, with additional works now proposed at Emerald Hill and Curlewis. The new Port facilities at Newcastle will also assist in the coal loading process however this is not expected to be operational until the end of 2009.

4.2 Environmental Monitoring Results

The Environmental Monitoring report was presented for the period with analysis indicating general compliance with consent criteria. Noise monitoring for September 07 indicated exceedance in relation to road traffic on the private sections of the haul road, however these readings were taken prior to removal of the grids. This will continue to be monitored at the next round of transport noise monitoring.

Rehabilitation has continued to progress on the western emplacement area with good results following good rainfall. The first round of tree planting on the site is scheduled for April 08.

The Department of Planning has also undertaken an audit at the

site to determine compliance against consent criteria. Whilst a formal response has not yet been received, general advice on day indicated a positive response from the Department.

5.0 New Business

- 5.1** The matter of Narrabri Shire Council measuring traffic use on adjacent gravel roads was raised for determination of road work requirements. It was noted that traffic counters had been placed on Hoad Lane, but there had been no results or advice from the Council on the measurements undertaken.
- 5.2** A truck turning sign on Manilla Road (in front of "Pine Grove") prior to the haul road to Whitehaven has been removed. New sign to be obtained.
- 5.3** Weed control to be addressed on the private haul roads. Action to be taken to investigate engaging Council or a contractor to undertake weed spraying.
- 5.4** Follow up on installation of First Flush Diverter for "Bollol Creek Station".

6.0 Complaints

No complaints were received on the complaints line or to personnel over the reporting period.

Bart Crosby highlighted that he had observed coal trucks stopping during heavy rain which was a positive sign in terms of general safety.

Peter Laird raised a complaint relating to a coal truck travelling at speed through water following a rain event which resulted in a wash which forced him from the road. Chris Burgess indicated this would be raised with Toll at the next toolbox meeting.

7.0 Next Meeting

The next meeting will be held at the Tarrawonga Coal Mine Training Room on Thursday 8th May at 3:30pm.

Meeting closed at 5:15pm.

..... / /2007
Ken Bates - Chairman

Tarrawonga Coal Mine Community Consultative Committee Meeting #8

Environmental Monitoring Report, September 2007 - February 2008

Noise Monitoring

Noise monitoring was undertaken on the 24th September as per requirements under the consent. Results from the September monitoring is outlined below:

TCM Noise Monitoring Results 24/25 September 2007 (Day)

Location	Time	dB(A), Leq	Wind Speed	Noise source
N2 Bollol Creek Station	5:32pm	56.6	0-1 m/s, NW	Birds(56), TCM(29)
N1 Templemore	5:49pm	38.8	0-1 m/s, NW	Birds(31), TCM(26)
N4 Ambardo	7:16am	46.2	Calm	Birds(43), TCM(35), Traffic1(35)
Pine Grove	6:48am	47.4	Calm	Birds(45), TCM(42)

1 TCM Trucks on the Manilla Road section of the Haul route. Criterion on this section is 60 dB(A).

TCM Noise Monitoring Results 24 September 2007 (Evening)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N1 Templemore	9:21pm	34.8	1-2 m/s, NW	Wind(33), TCM(30)
N2 Bollol Creek Station	9:07pm	37.2	1-2 m/s, NW	Wind(36), TCM(31)
N4 Ambardo	8:47pm	38.9	0-1 m/s, NW	TCM(36), Traffic1(33)

1 TCM Trucks on the Manilla Road section of the Haul route. Criterion on this section is 60 dB(A).

TCM Noise Monitoring Results 25 September 2007 (Night)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N1 Templemore	1:29am	41.3	Calm	Birds(40), TCM(32)
N2 Bollol Creek Station	1:14am	48.5	Calm	Birds(48), TCM(33)
N4 Ambardo	12:06am	30.6	Calm	Cattle(28), TCM(28)

The above results indicate an exceedance at Pine Grove at 6:48am and an exceedance at Ambardo at 8:47am. At the time of monitoring conditions were calm and mild with no cloud cover. The cause of the exceedance was related to truck movements on the haul road, and specifically movements across the grids at the intersection with Manilla Road. The grids have subsequently

been removed since this noise assessment was done which should have reduced the potential for future exceedance. An additional noise monitoring program was scheduled for December 07, however this was aborted due to wind speeds being above acceptable criteria for effective noise monitoring. A rescheduled monitoring event was undertaken in January 08 with results not yet received.

Blast Monitoring

Blasting Results

Since the first shot there have been 71 blasts.

All blasts during this report period have been compliant within the limits of 115dBL and 5mm/s.

To date, the highest overpressure recorded remains at 117.0 dBL recorded at "Bollol Creek Station" on the 5th July 2007. The highest ground vibration recorded is 1.32 mm/s recorded at "Bollol Creek Station" on the 25th January 2008.

Air Quality

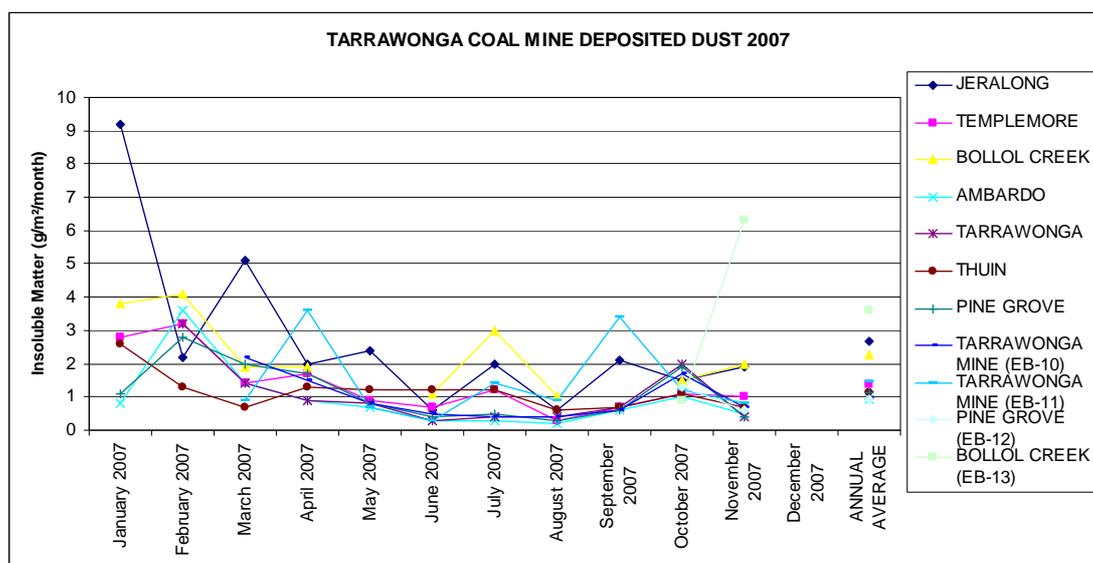
PM10 Results

The annual average for PM10 readings is currently at 15.3ug/m³, which is well below the annual average limit of 30ug/m³.

The highest 24hr reading remains at 49ug/m³ which was recorded on the 5th May 2007, which remained below the 24hr limit of 50ug/m³

Air Quality (Dust Deposition) Results

Month	EB3 Jeralong	EB4 Templemore	EB5 Bollol Creek	EB6 Ambardo	EB7 Tarrawonga	EB8 Thuin	EB9 Pine Grove	EB10 Tarrawonga	EB11 Tarrawonga	EB12 Pine Grove	EB13 Bollol Creek
November 2006	4.5	2.9	3.2	1.8	NS	2.2	1.5				
December 2006	2.3	1.5	1.9	0.9	3.7	1.0	1.2				
January 2007	9.2	2.8	3.8	0.8	NS	2.6	1.1				
February 2007	2.2	3.2	4.1	3.6	3.2	3.2	2.8				
March 2007	5.1	1.4	1.9	1.4	1.4	0.7	2.0	2.2	0.9		
April 2007	2.0	1.7	1.9	0.9	0.9	1.3	1.7	1.5	3.6		
May 2007	2.4	0.9	NS	0.7	0.8	1.2	0.8	0.8	0.7		
June 2007	0.6	0.7	1.1	0.3	0.3	1.2	0.4	0.5	0.3		
July 2007	2.0	1.2	3.0	0.3	0.4	1.2	0.5	0.4	1.4		
August 2007	0.6	0.3	1.0	0.2	0.4	0.6	0.3	0.4	0.9		
September 2007	2.1	0.7	NS	0.6	0.7	0.7	0.6	0.6	3.4		
October 2007	1.5	1.1	1.5	1.0	2.0	1.1	1.9	1.7	1.2	1.3	0.9
November 2007	1.9	1.0	2.0	0.5	0.4	0.7	0.4	0.7	0.8	0.6	6.3
Average	2.8	1.5	2.3	1.0	1.3	1.4	1.2	0.9	1.5	0.9	4.0



The deposited dust levels have shown a general decline since the start of 2007, with lower dust levels coinciding with frequency of rainfall. Tarrawonga has received approval from DECC in relation to the removal monitor EB3 and replacement with EB10 and EB11. Two additional monitors EB12 and EB13 have now been installed at Pine Grove and Bollol Creek for comparison with data from existing monitors at these sites.

As can be identified from the above table and graph, all monitors remain well within the average annual criterion of 4mg/m²/month, with the exception of EB13 at which there is currently insufficient data for analysis.

Water Monitoring

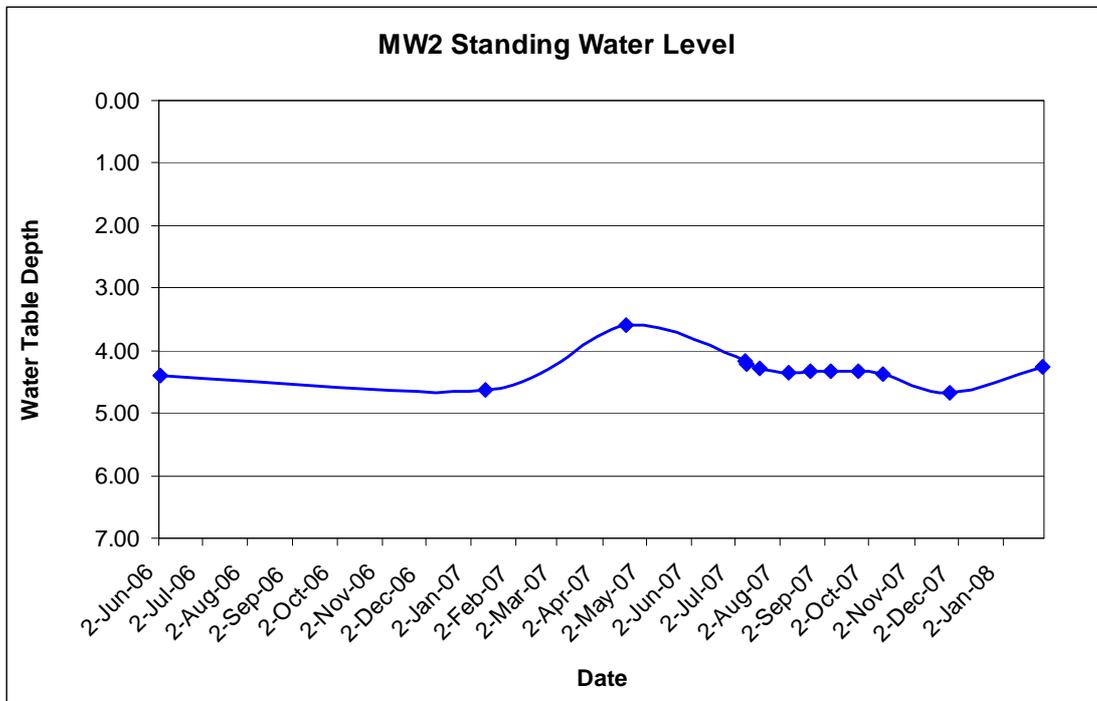
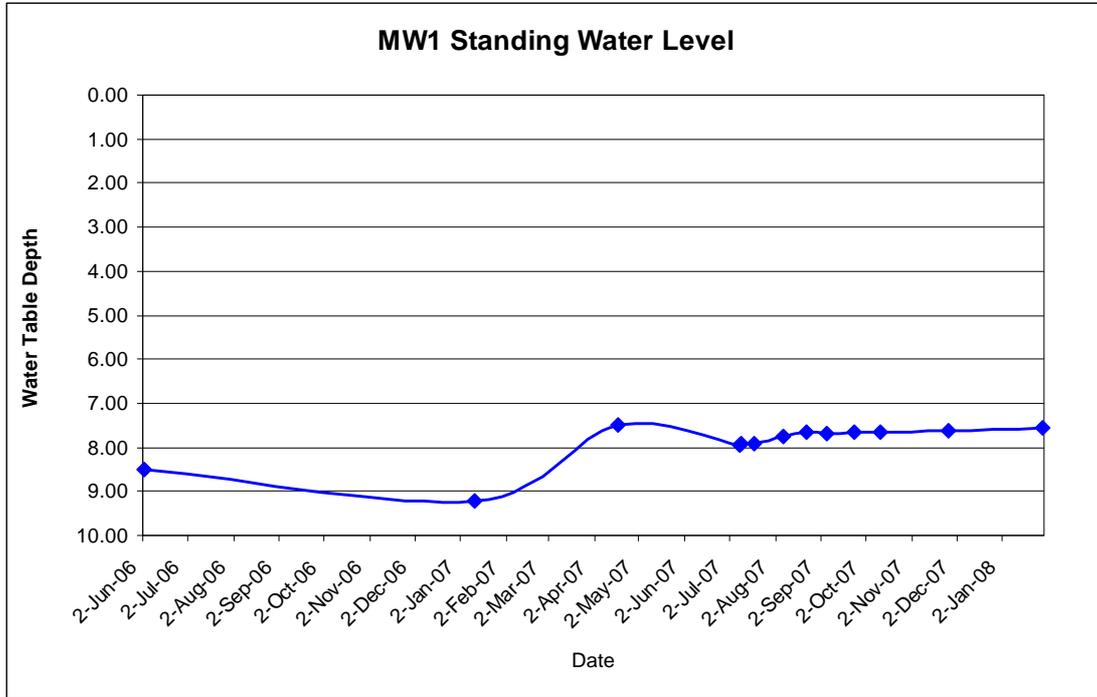
Ground Water

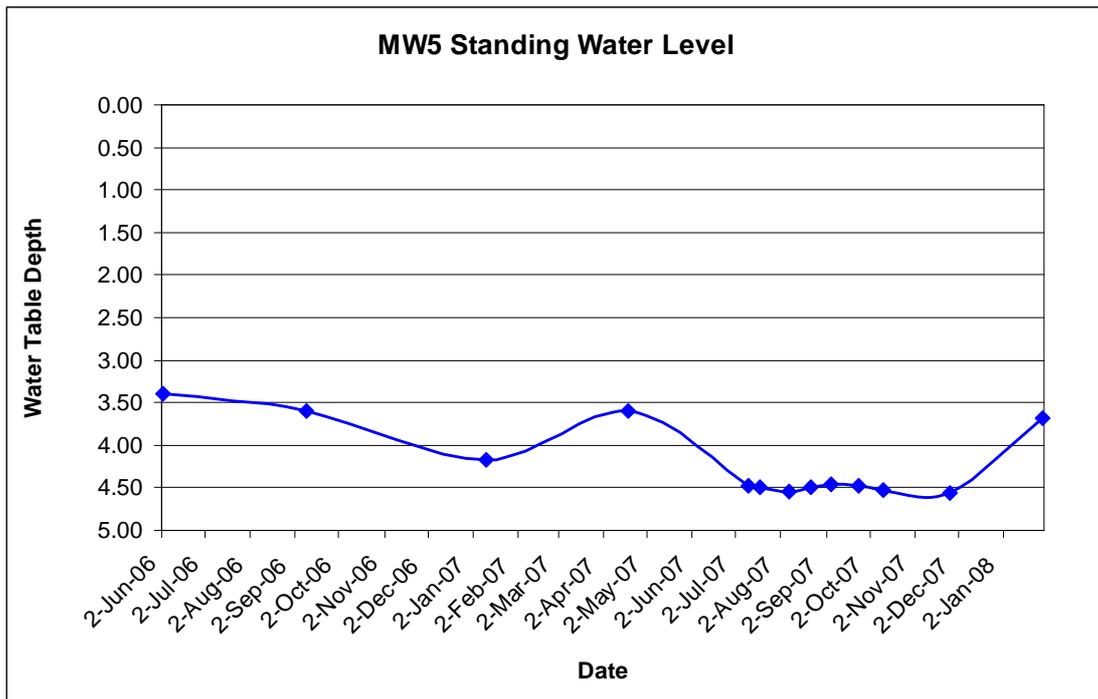
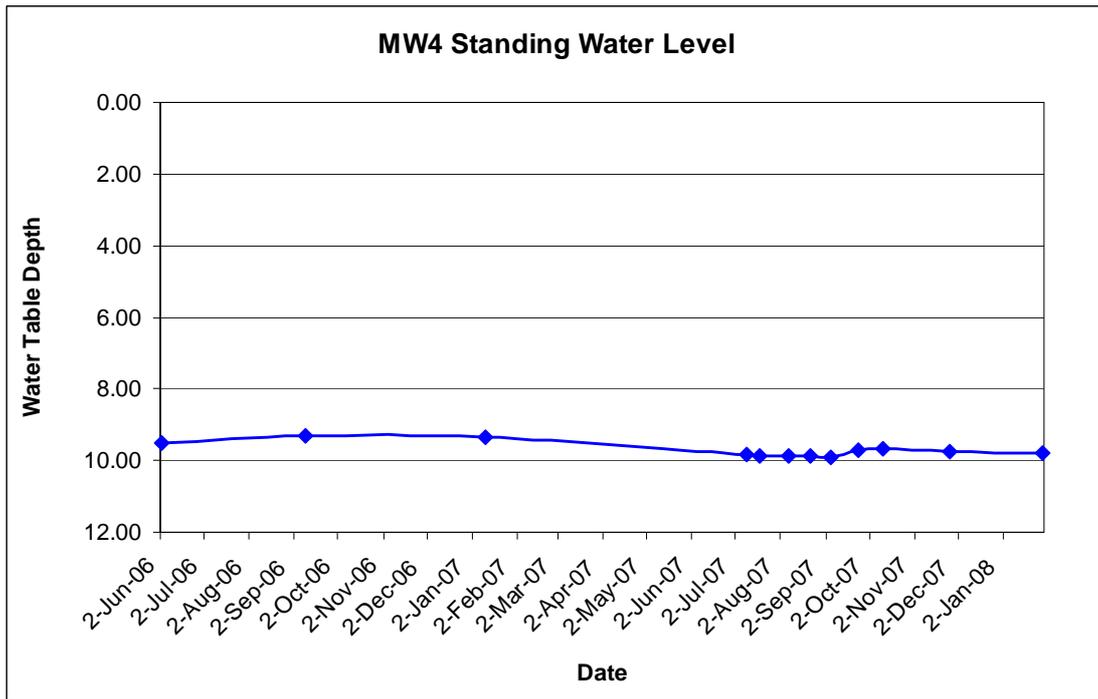
The 6 monthly ground water monitoring was undertaken in July with consultants, RCA. The chemical analysis from that monitoring has been received with no significant changes in water chemistry or depth readings as compared to the prior sampling round. Results are as indicated in the table below.

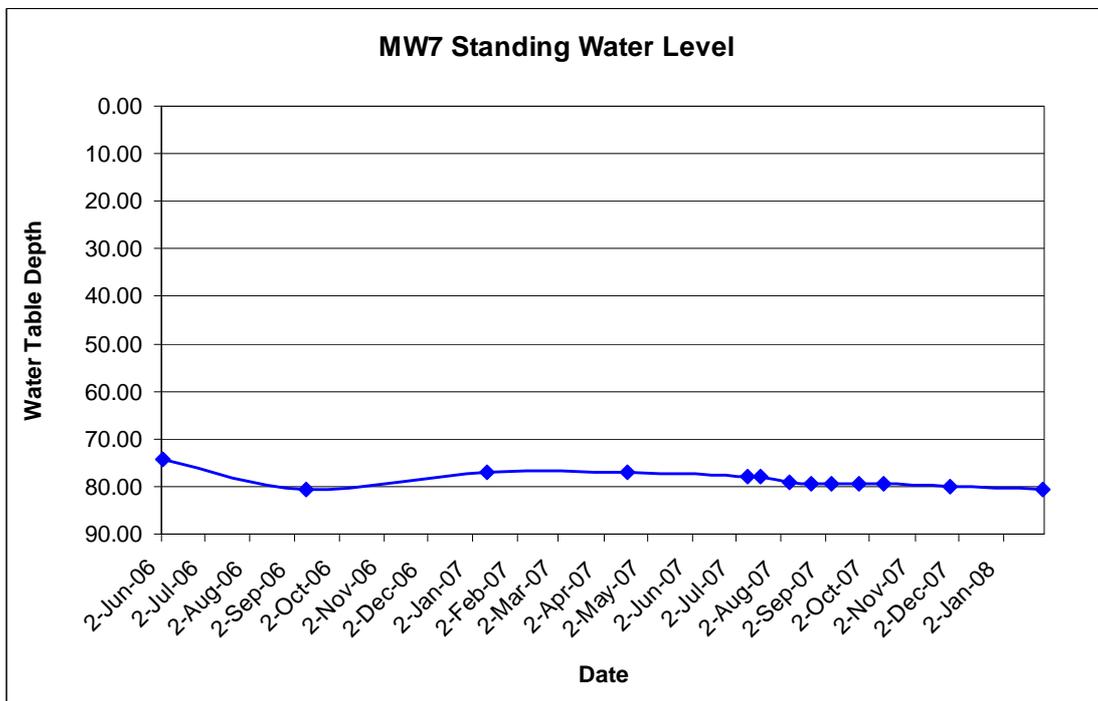
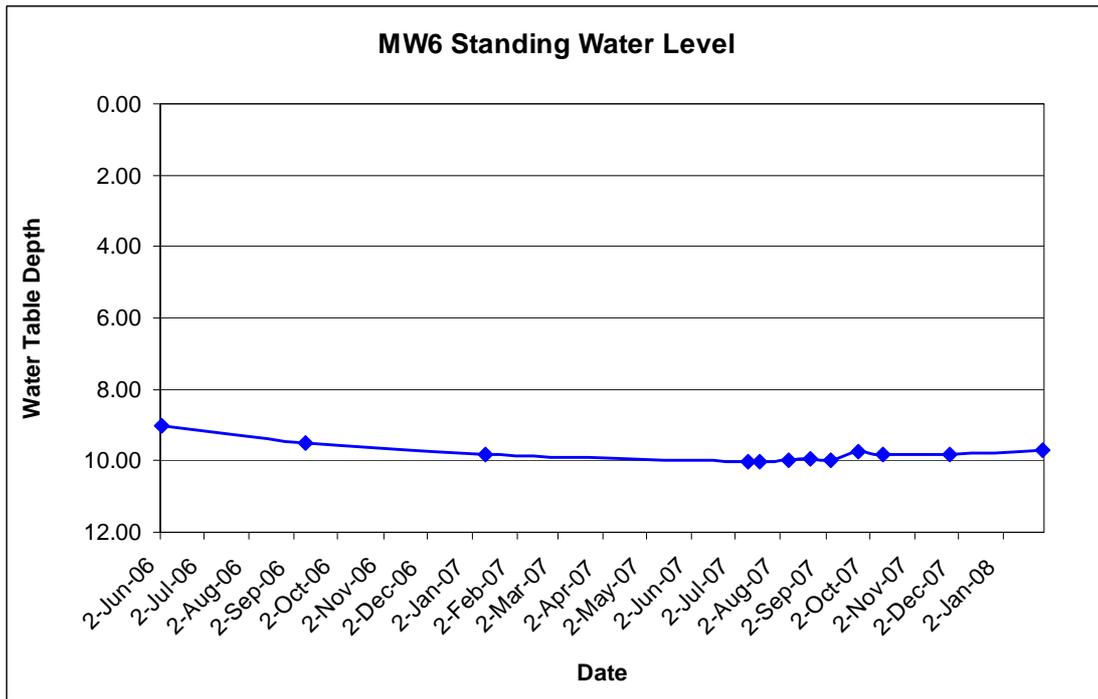
Site	Date	SWL (m)	pH	Elect. Conduct
MW1	June 06	8.54	7.5	6330
	January 07	9.22	7.1	2410
	April 07	7.49		
	July 07	7.91	7.3	2500
	August 07	7.66		
	September 07	7.66		
	October 07	7.64		
	November 07	7.62		
	January 08	7.55		

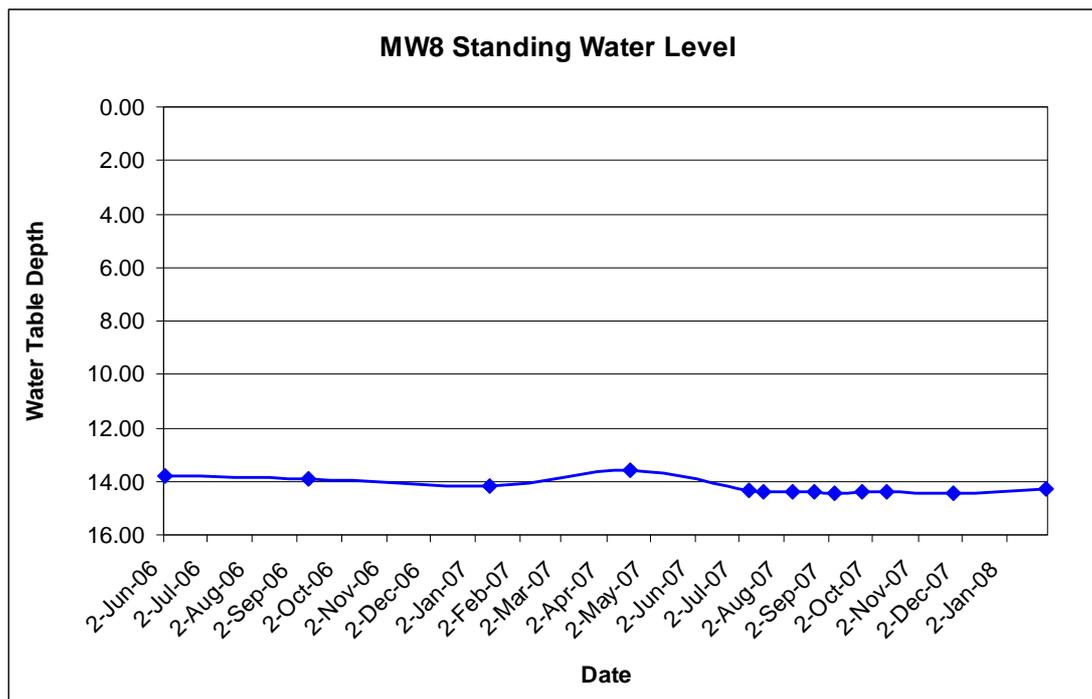
MW2	June 06	4.39	7.0	5440
	January 07	4.62	6.8	511
	April 07	3.59		
	July 07	4.29	7.1	496
	August 07	4.32		
	September 07	4.34		
	October 07	4.37		
	November 07	4.68		
	January 08	4.25		
MW4	June 06	9.49	7.0	3290
	September 06	9.25		
	January 07	9.37	7.1	3430
	July 07	9.88	6.8	5400
	August 07	9.87		
	September 07	9.73		
	October 07	9.67		
	November 07	9.76		
	January 08	9.80		
MW5	June 06	3.38	6.9	1530
	September 06	3.64		
	January 07	4.18		
	April 07	3.60		
	July 07	4.49	7.5	1930
	August 07	4.50		
	September 07	4.48		
	October 07	4.53		
	November 07	4.56		
	January 08	3.68		
MW6	June 06	8.99	7.3	2030
	September 06	9.54		
	January 07	9.81	6.9	2030
	July 07	10.01	7.5	2060
	August 07	9.95		
	September 07	9.73		
	October 07	9.82		
	November 07	9.83		
	January 08	9.72		
MW7	June 06	74.2	7.2	2250
	September 06	80.52		
	January 07	77.0	7.3	1960
	April 07	76.9		
	July 07	77.93	7.2	2250
	August 07	79.28		
	September 07	79.39		
	October 07	79.55		
	November 07	80.17		
	January 08	80.63		
MW8	June 06	13.8	6.7	2240
	September 06	13.9		
	January 07	14.1	6.7	2260
	April 07	13.6		
	July 07	14.41	6.8	2530
	August 07	14.40		

	September 07	14.38		
	October 07	14.37		
	November 07	14.43		
	January 08	14.28		









The results indicate only minor variability in the ground water levels at each of the TCM monitoring bores. Latest trends are indicative of replenishment of groundwater supplies consistent with above average rainfalls over the last quarter. Monitoring will continue on a quarterly basis to generate additional data over time in order to establish ongoing trends in groundwater levels at our monitoring sites.

Surface Water

Water quality tests of water in storage dams is undertaken quarterly. The results from sampling in July 07 are presented below. Sampling was again undertaken in October with the result not yet available. They will be presented at the next CCC meeting.

Date	Sample Site	pH	EC	Total Suspended Solids	Oil & Grease
31/10/2007	SD9	7.8	310	16	<2
31/10/2007	SD8	8.8	780	32	<2
31/10/2007	SB5	8.9	1200	60	<2
31/10/2007	SB8	9.0	2000	110	<2
31/10/2007	SB7	8.4	560	27	<2
31/10/2007	MV	8.1	2780	45	<2
31/10/2007	SD5	8.3	2620	44	<2

As there is no discharge associated with these results there is no criteria applicable. The results do however indicate low levels of Total Suspended Solids generally, with the two sites slightly above discharge criteria being sediment basins where TSS levels would be expected to be higher.

Discharge events occurred on the 17th January 2008 and 6th February following significant rainfall. The results from the discharge analysis will be presented at the next CCC meeting.

Rehabilitation

Rehabilitation has continued along the western face of the mine site as indicated in photograph below. Additional works are required on the waterway which is programmed for completion over the next month, weather permitting.



Environmental Audit

The Department of Planning conducted an audit at Tarrawonga on 30th January against the development consent conditions. Whilst formal written advice on the audit has not yet been received, generally the auditors provided favourable feedback on the sites compliance to date.

Minutes of the 9th Meeting of the Tarrawonga Coal Mine Community Consultative Committee

Meeting Held: Thursday 8th May at 3:30pm

Venue: The meeting held at Tarrawonga Coal Mine Training Room.

1. Present and Apologies

Present: Clr Ken Bates (Narrabri Shire Rep.) Chairman
Clr Colleen Fuller (Gunnedah Shire Rep.)
Mr Danny Young (Environmental Manager)
Mr Jason Conomos (Project Manager)
Mr Peter Laird (Community Rep)
Mr Sandy Bull (Community Rep)
Mr Bob McGregor (Community Rep)

Apologies: Mr Chris Burgess (Group Manager New Projects)
Mr Bart Crosby (Community Rep)

2. Previous Minutes

The minutes of the previous meeting of CCC were read and confirmed as a true record on the motion of Colleen Fuller and Bob McGregor.

3. Business Arising

3.1 Results of noise monitoring after removal of cattle grids revealed a 1dB(A) exceedance at Pine Grove and Ambardo at monitoring in January 2008. This was put down to start of shift trucks arriving as a convoy. The March round of monitoring identified compliance with noise criteria. Haul truck noise on the private sections of the haul road will be monitored closely to ensure noise compliance. Where monitoring indicates exceedances in the morning at the start of shift, actions will be implemented to stagger truck commencement times to reduce noise impact.

4.0 General Business

4.1 Mine Progress

Jason Conomos reported that 3 months of dry weather had allowed production to proceed very well with 2,990,000 BCM of overburden moved to produce of 349,000 tonnes of coal.

4.2 Environmental Monitoring Results

The Environmental Monitoring Report was presented for the period with analysis indicating general compliance with consent criteria. Noise monitoring for January indicated a 1dB(A) exceedance in relation to road traffic on the private sections of the haul road at the Pine Grove and Ambardo residences. This exceedance has been attributed to the commencement of shift operations of Toll coal transport trucks, resulting in a significant portion of road traffic at the monitoring time. The monitoring in March indicated compliance with noise criteria. The issue of noise at shift commencement for Toll trucks will be closely monitored. In the event that truck movements first thing of a morning continues to result in exceedance of noise criteria, procedures will be adopted in order to stagger truck movements and reduce noise impact at that time.

Rehabilitation of the site continues to progress, with the main feature over the last three months being the establishment of a rock lined waterway on the western face. It is expected this feature will be completed within 4 weeks. Desilting of storage dams at the base of the waterway is also underway and will be completed in the near future.

One complaint was received from Mrs. Crosby at Northam in relation to a blast on 23rd April which rattled her windows. On checking blast monitor results, the blast was found to be well within compliance levels. Mrs. Crosby was advised to make follow up contact with Tarrawonga in the event that future blasts continued to cause her concern.

5.0 New Business

- 5.1** Some break up of the surface on the Manilla Road. Narrabri Shire Council will be contacted.
- 5.2** Colleen Fuller advised of her appointment to the Namoi Conservation Committee. She requested that an item on rehabilitation be included in the business paper for a future meeting
- 5.3** It was noted that it would be good to have our new General Manager of Operations attend the next meeting.
- 5.4** The erection of a sign advising drivers to restrict the use of air brakes will be investigated for placement at the intersections of the private haul road with Manilla road. This will aid in reducing noise impacts on the Pine Grove and Ambardo residences.

5.5 Peter Laird commented on dust clouds arising from the direction of the mine, but believed a large component was from behind Tarrawonga and associated with the Idemitsu Boggabri mine. Danny Young explained the requirement for both sites to monitor and report on cumulative impacts from both operations, with meetings between operations occurring on a regular basis to address this cumulative impact.

5.6 Peter Laird advised that some trucks tail lights and turn indicators were dirty and it was had to see the indicators at times. This matter will be brought to the attention of Toll.

Peter Laird complimented the Toll drivers on their courteous behaviour on the road.

6.0 Complaints

6.1 One complaint was received from Mrs. Crosby at Northam in relation to a blast on 23rd April which rattled her windows. On checking blast monitor results, the blast was found to be well within compliance levels. Mrs. Crosby was advised to make follow up contact with Tarrawonga in the event that future blasts continued to cause her concern.

7.0 Next Meeting

The next meeting will be held at the Tarrawonga Coal Mine Training Room on 6th August 2008 at 3:30pm.

Meeting closed at 4:15pm.

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Ken Bates - Chairman

Tarrawonga Coal Mine Community Consultative Committee Meeting #9

Environmental Monitoring Report, February 2008 – May 2008

Noise Monitoring

Noise monitoring was undertaken on Tuesday 29th January as per requirements under the consent. Results from the January monitoring is outlined below:

TCM Noise Monitoring Results 29/30 January 2008 (Day)

Location	Time	dB(A), Leq	Wind Speed	Noise source
N1 Templemore	5:30pm	48.8	1-2 m/s, NW	Birds & Insects (48), TCM(inaudible)
N2 Bollol Creek Station	5:12pm	46.9	1-2 m/s, NW	Birds & Insects (46), TCM(inaudible)
N4 Ambardo	7:06am	61.2	Calm	Birds(61), TCM(36) , Traffic ¹ (30)
Pine Grove (25 Sep)	6:28am	45.7	Calm	Local Traffic (44), Birds(39) TCM (36)

¹ TCM Trucks on the Manila Road section of the Haul route. Criterion on this section is 60 dB(A).

TCM Noise Monitoring Results 29 January 2008 (Evening)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N1 Templemore	9:20pm	38.0	1-2 m/s, SSW	Insects(36), Wind(35), TCM(inaudible)
N2 Bollol Creek Station	9:40pm	39.2	1-2 m/s, SSW	Insects(39), TCM(inaudible)
N4 Ambardo	8:09pm	53.2	1-2 m/s, SSW	Birds(53), Traffic ¹ (30), TCM(33)

¹ TCM Trucks on the Manila Road section of the Haul route. Criterion on this section is 60 dB(A).

TCM Noise Monitoring Results 25 September 2007 (Night)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N1 Templemore	1:10am	32.3	<0.5 m/s NW	Insects and Frogs(32), TCM(inaudible)
N2 Bollol Creek Station	1:29am	34.3	<0.5 m/s NW	Insects(34), TCM(inaudible)
N4 Ambardo	12:53am	43.7	Calm	Birds(43), TCM(29)

The above results indicate an exceedance at Pine Grove at 6:28am and an exceedance at Ambardo at 7:06am of 1dB. At the time of monitoring conditions were calm and mild with no cloud cover. The cause of the exceedance was related to truck movements on the haul road and specifically the number of truck movements within the monitoring period. Since the inception of the 6:45am start time from the Canyon site for the haul trucks, there has been a concentrated number of truck movements at the start of haulage operations, thereby contributing to additional noise levels. These noise levels will continue to be monitored and in the event that exceedances continue to occur, consideration will be given to modifying haulage commencement protocols to address this noise impact.

Additional noise monitoring was undertaken on the 26th and 27th March 2008, the results of which are presented below.

TCM Noise Monitoring Results 26/27 March 2008 (Day)

Location	Time	dB(A), Leq	Wind Speed	Noise source
N2 Bollol Creek Station	11:35am	41.5	Calm	Birds & Insects (42), TCM(<20)
N2 Tarrawonga	11:58am	38.1	Calm	Birds & Insects (38), TCM(inaudible)
N4 Ambardo (27 Mar)	7:30am	46.7	<0.5m/s, SE	Birds(46), TCM(28)
Pine Grove (27 Mar)	7:10am	53.7	<0.5m/s, SE	Birds (54), TCM(34), Traffic1 (<30)

1 TCM Trucks on the Manilla Road section of the Haul route. Criterion on this section is 60 dB(A).

TCM Noise Monitoring Results 26 March 2008 (Evening)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N2 Bollol Creek	7:02pm	33.8	1.5 m/s, NW	Birds & Insects(44), TCM(<20)
N2 Tarrawonga	6:40pm	35.1	1.5 m/s, NW	Birds & Insects(35), TCM(barely audible)
N4 Ambardo	6:10pm	41.9	1.5 m/s, NW	Birds(41), TCM(34)

TCM Noise Monitoring Results 26/27 March 2008 (Night)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N2 Bollol Creek	12:45am	30.1	<1m/s SSW	Birds and Insects(30), TCM(<20)
N3 Tarrawonga	1:05am	29.8	<1m/s SSW	Birds and Insects(30), TCM(inaudible)
N4 Ambardo (26/3)	11:47pm	36.8	<1m/s SSW	Birds and Insects(37), TCM(inaudible)

The above results indicate TCM was in compliance with consent criteria throughout the monitoring events in March 2008.

Blast Monitoring

Blasting Results

Since the first shot there have been 92 blasts.

All blasts during this report period have been compliant within the limits of 115dB_L and 5mm/s.

To date, the highest overpressure recorded remains at 117.0 dB_L recorded at "Bollol Creek Station" on the 5th July 2007. The highest ground vibration recorded is 1.32 mm/s recorded at "Bollol Creek Station" on the 25th January 2008.

Air Quality

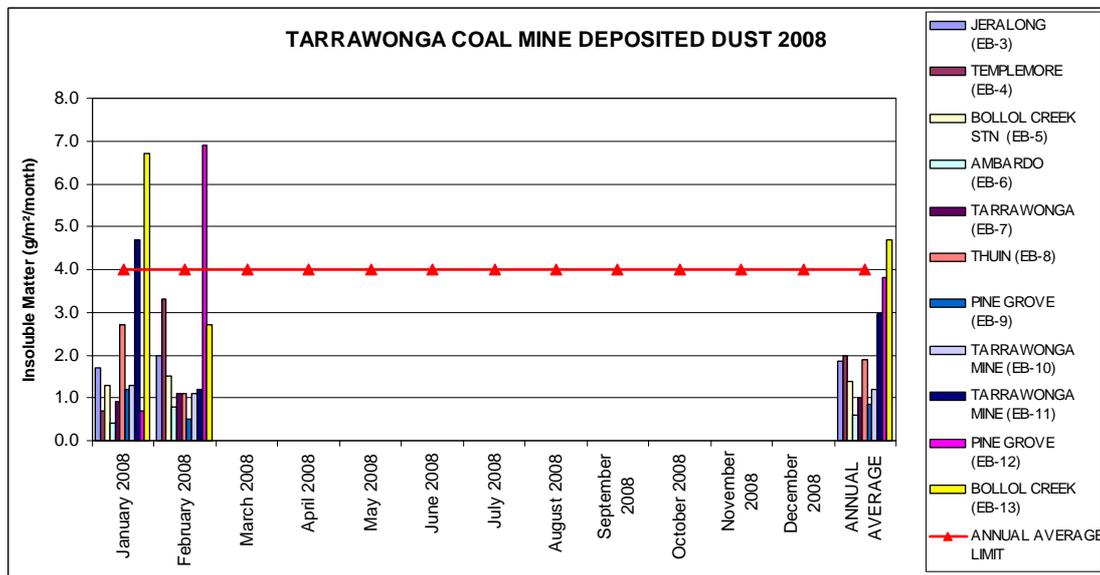
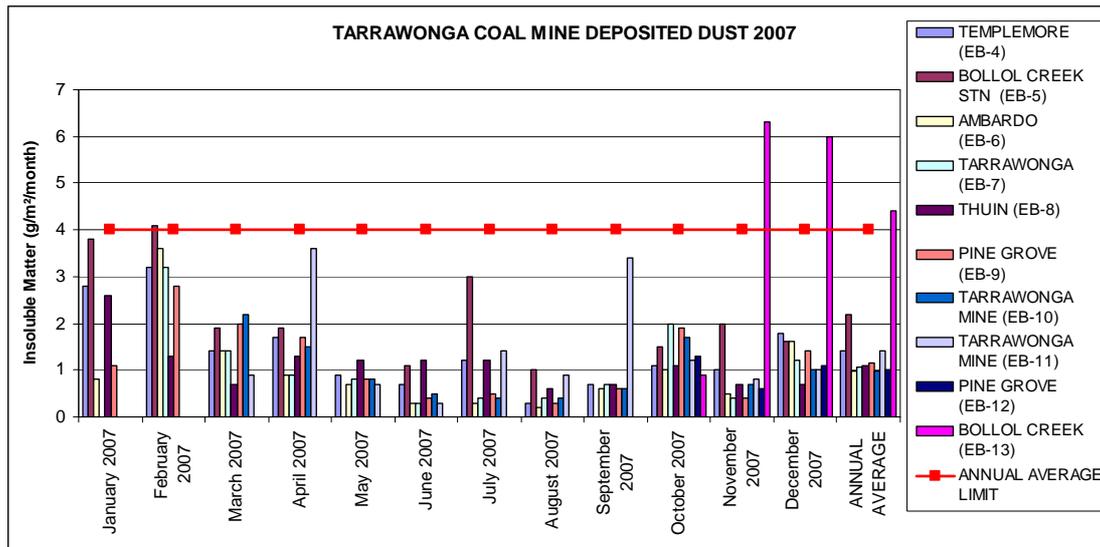
PM10 Results

The annual average for PM10 readings is currently at 18.6ug/m³, which is well below the annual average limit of 30ug/m³.

The highest 24hr reading remains at 49ug/m³ which was recorded on the 5th May 2007, which remained below the 24hr limit of 50ug/m³

Air Quality (Dust Deposition) Results

Month	EB3 Jeralong	EB4 Templemore	EB5 Bollol Creek	EB6 Ambardo	EB7 Tarrawonga	EB8 Thuin	EB9 Pine Grove	EB10 Tarrawonga	EB11 Tarrawonga	EB12 Pine Grove	EB13 Bollol Creek
February 2007	2.2	3.2	4.1	3.6	3.2	1.3	2.8				
March 2007	5.1	1.4	1.9	1.4	1.4	0.7	2.0	2.2	0.9		
April 2007	2.0	1.7	1.9	0.9	0.9	1.3	1.7	1.5	3.6		
May 2007	2.4	0.9		0.7	0.8	1.2	0.8	0.8	0.7		
June 2007	0.6	0.7	1.1	0.3	0.3	1.2	0.4	0.5	0.3		
July 2007	2.0	1.2	3.0	0.3	0.4	1.2	0.5	0.4	1.4		
August 2007	0.6	0.3	1.0	0.2	0.4	0.6	0.3	0.4	0.9		
September 2007	2.1	0.7		0.6	0.7	0.7	0.6	0.6	3.4		
October 2007	1.5	1.1	1.5	1.0	2.0	1.1	1.9	1.7	1.2	1.3	0.9
November 2007	1.9	1.0	2.0	0.5	0.4	0.7	0.4	0.7	0.8	0.6	6.3
December 2007	1.5	1.8	1.6	1.6	1.2	0.7	1.4	1.0	1.0	1.1	6.0
January 2008	1.7	0.7	1.3	0.4	0.9	2.7	1.2	1.3	4.7	0.7	6.7
February 2008	2.0	3.3	1.5	0.8	1.1	1.1	0.5	1.1	1.2	6.9	2.7
Average	2.0	1.4	1.9	0.9	1.1	1.1	1.1	1.0	1.7	2.1	4.5



The deposited dust levels have remained relatively consistent over the last 12 months. All monitors with 12 months of data remain within the 4mg/m²/month consent limit. The recently established EB-13 at Bollol Creek Station is the only monitor which is exhibiting signs of significant dust impact. This will continue to be monitored closely in conjunction with ongoing dust control measures to ensure dust levels are contained within the consent criterion.

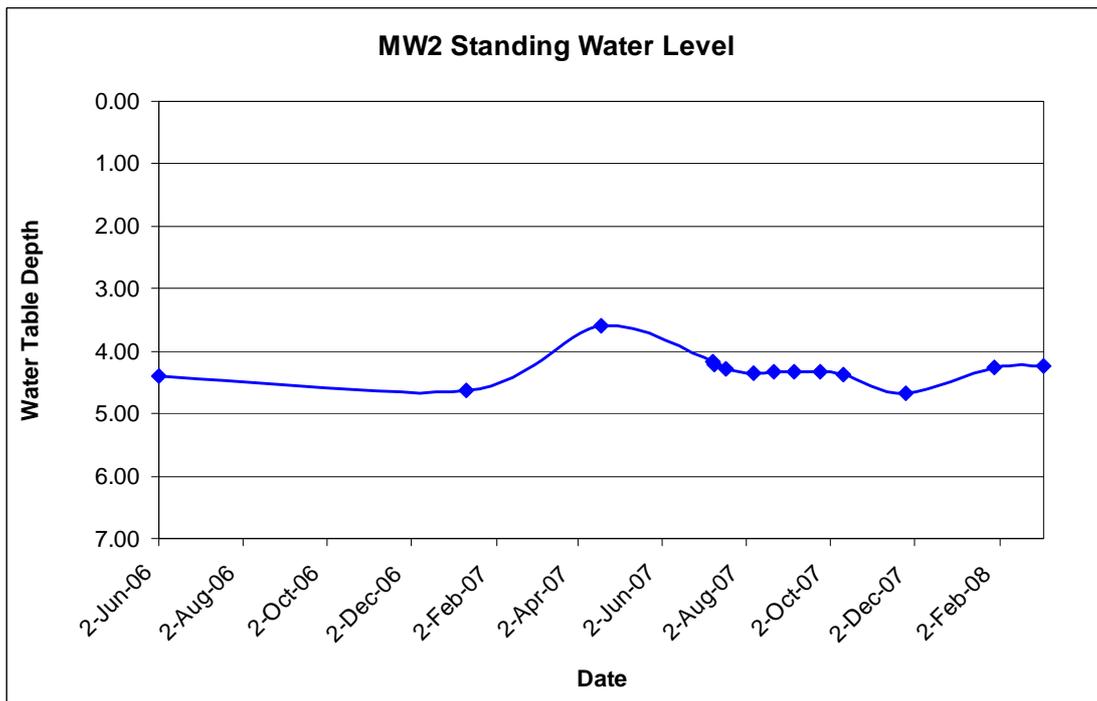
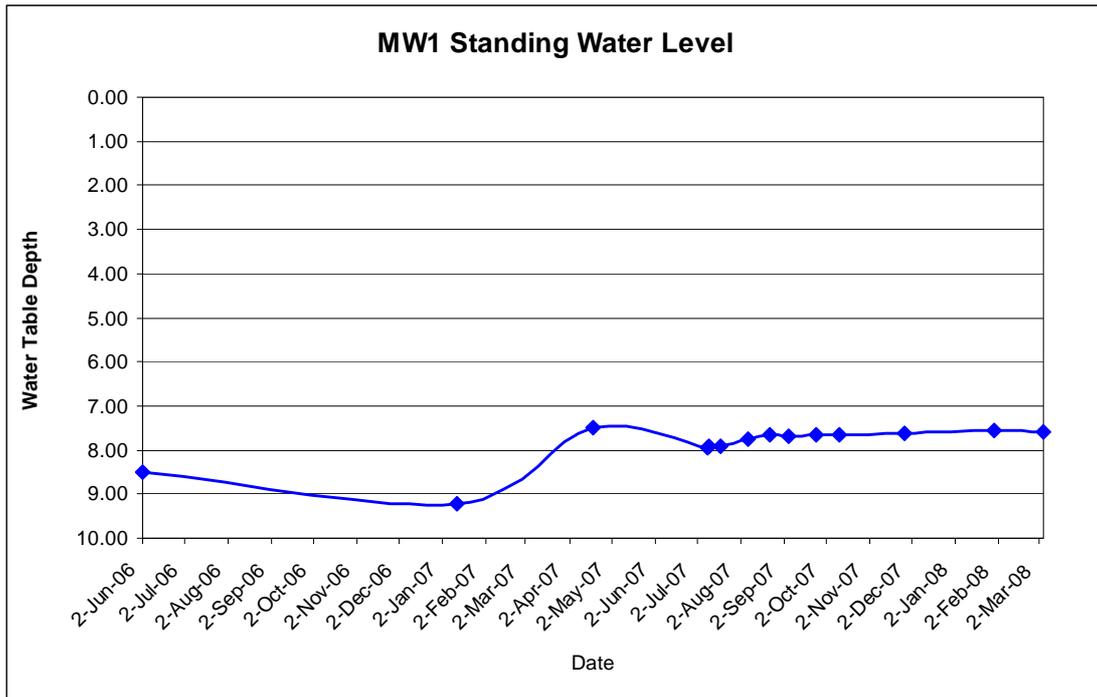
Water Monitoring

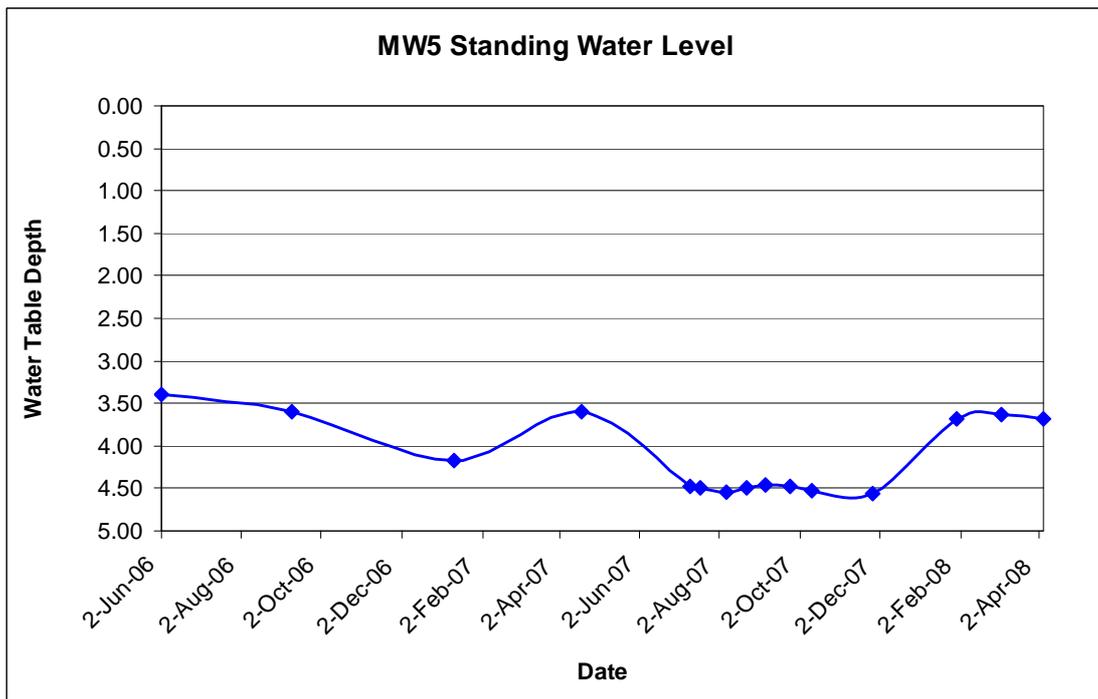
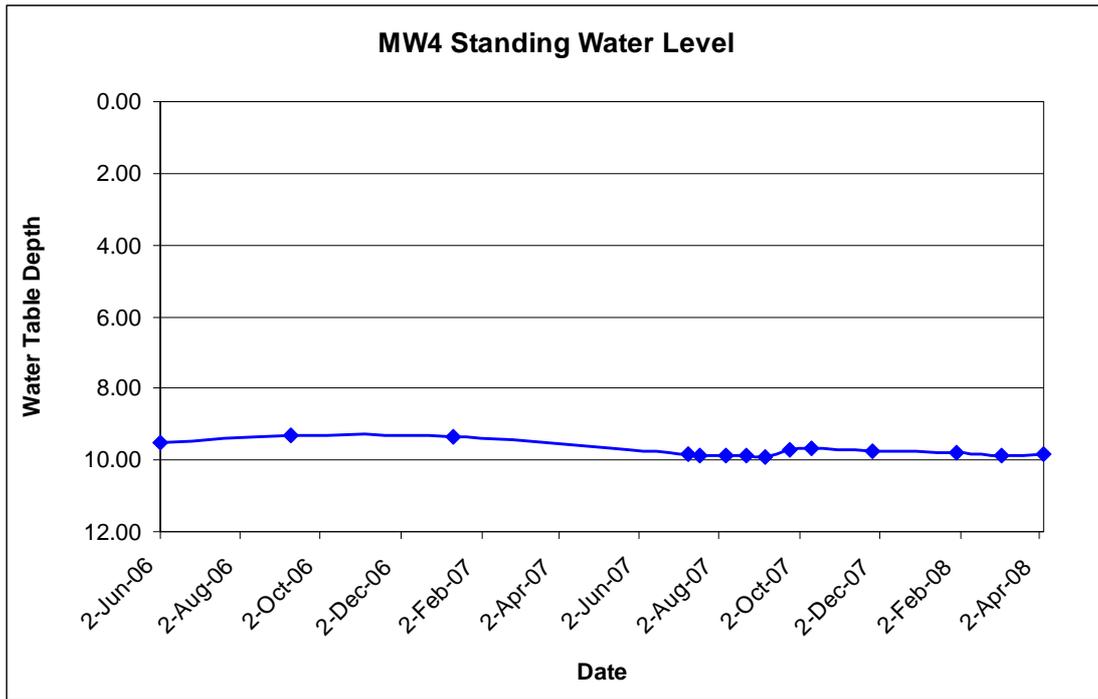
Ground Water

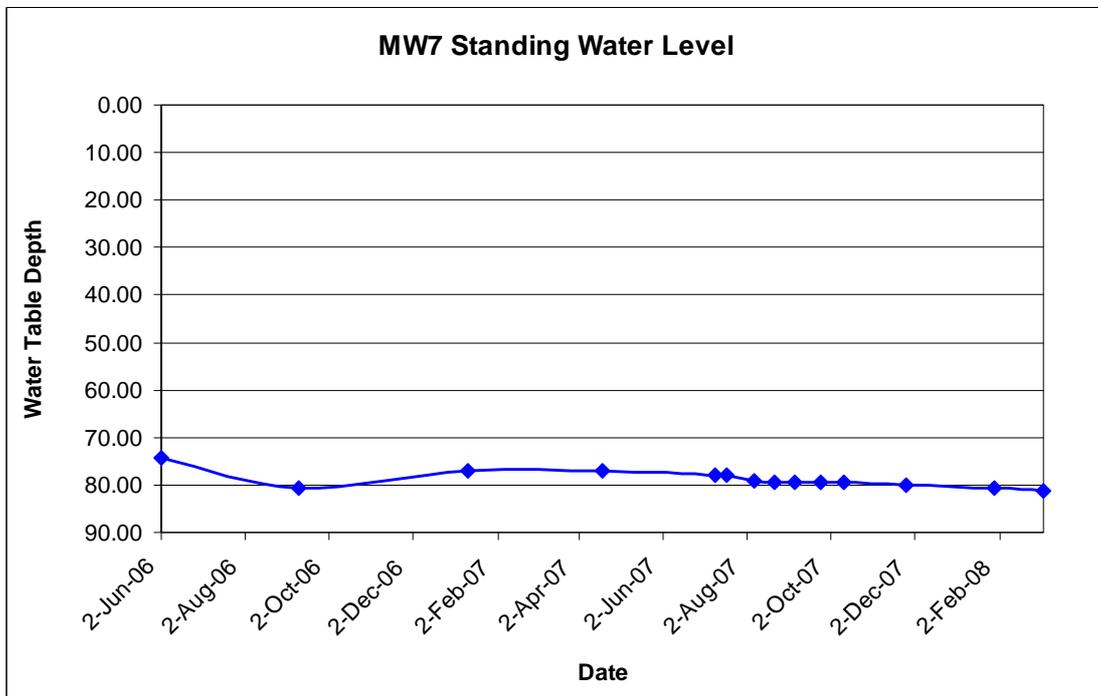
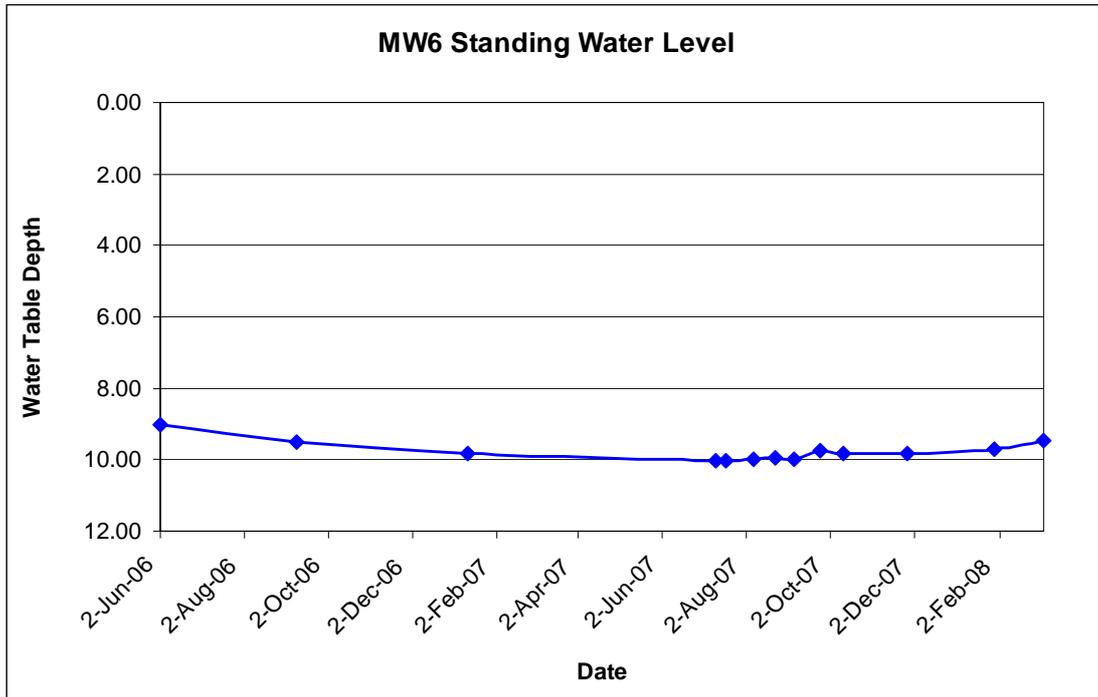
The 6 monthly (full analysis) ground water monitoring was recently undertaken in April by Ecowise Environmental. The results from the monitoring have not yet been received. The results will be provided for the next CCC meeting. The regular Standing Water Level readings have continued to be taken with results presented in the table below:

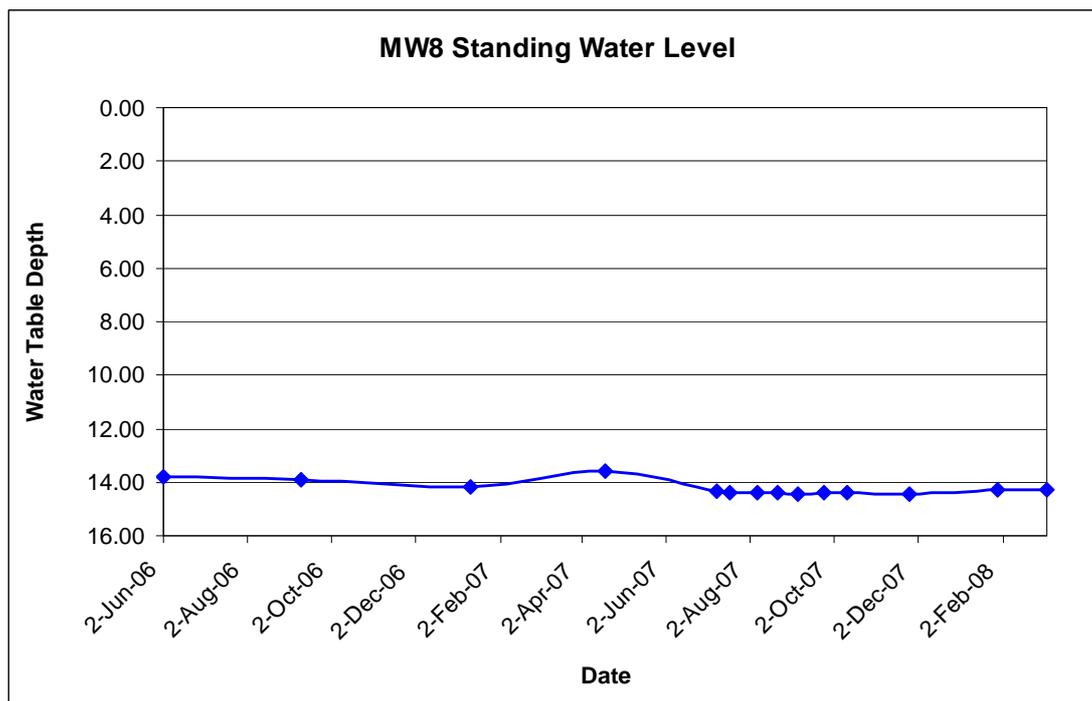
Site	Date	SWL (m)	pH	Elect. Conduct	
MW1	June 06	8.54	7.5	6330	
	January 07	9.22	7.1	2410	
	April 07	7.49			
	July 07	7.91	7.3	2500	
	August 07	7.66			
	September 07	7.66			
	October 07	7.64			
	November 07	7.62			
	January 08	7.55			
	March 08	7.60			
MW2	June 06	4.39	7.0	5440	
	January 07	4.62	6.8	511	
	April 07	3.59			
	July 07	4.29	7.1	496	
	August 07	4.32			
	September 07	4.34			
	October 07	4.37			
	November 07	4.68			
	January 08	4.25			
	March 08	4.23			
MW4	June 06	9.49	7.0	3290	
	September 06	9.25			
	January 07	9.37	7.1	3430	
	July 07	9.88	6.8	5400	
	August 07	9.87			
	September 07	9.73			
	October 07	9.67			
	November 07	9.76			
	January 08	9.80			
	March 08	9.87			
	April 08	9.85			
MW5	June 06	3.38	6.9	1530	
	September 06	3.64			
	January 07	4.18			
	April 07	3.60			
	July 07	4.49	7.5	1930	
	August 07	4.50			
	September 07	4.48			
	October 07	4.53			
	November 07	4.56			
	January 08	3.68			

	March 08	3.63		
	April 08	3.69		
MW6	June 06	8.99	7.3	2030
	September 06	9.54		
	January 07	9.81	6.9	2030
	July 07	10.01	7.5	2060
	August 07	9.95		
	September 07	9.73		
	October 07	9.82		
	November 07	9.83		
	January 08	9.72		
	March 08	9.48		
MW7	June 06	74.2	7.2	2250
	September 06	80.52		
	January 07	77.0	7.3	1960
	April 07	76.9		
	July 07	77.93	7.2	2250
	August 07	79.28		
	September 07	79.39		
	October 07	79.55		
	November 07	80.17		
	January 08	80.63		
	March 08	81.10		
MW8	June 06	13.8	6.7	2240
	September 06	13.9		
	January 07	14.1	6.7	2260
	April 07	13.6		
	July 07	14.41	6.8	2530
	August 07	14.40		
	September 07	14.38		
	October 07	14.37		
	November 07	14.43		
	January 08	14.28		
	March 08	14.30		









The results indicate only minor variability in the ground water levels at each of the TCM monitoring bores. Monitoring will continue on a quarterly basis to generate additional data over time in order to establish ongoing trends in groundwater levels at our monitoring sites.

Surface Water

Water quality tests of water in storage dams is undertaken quarterly. The results from sampling in March 08 are presented below.

Date	Sample Site	pH	EC	Total Suspended Solids	Oil & Grease
18/03/2008	SD9	6.9	245	27	<2
18/03/2008	SD20	7.4	385	44	<2
18/03/2008	SB5	7.8	870	54	<2
18/03/2008	SB7	7.5	365	387	<2
18/03/2008	SD17	7.4	460	58	<2
18/03/2008	MV	7.8	3110	10	<2
18/03/2008	Pit Water Dam	8.3	2620	44	<2

As there is no discharge associated with these results there is no criteria applicable. The results do however indicate low levels of Total Suspended Solids generally, with the sites above discharge criteria being sediment basins where TSS levels would be expected to be higher.

Discharge events occurred on the 17th January 2008 and 6th February following significant rainfall. The results from the discharge analysis is as presented below:-

Date	Sample Site	pH	EC	Total Suspended Solids	Oil & Grease
17/01/2008	SD17	7.6	425	837	<2

The above event resulted from a storm which caused a minor discharge from the Storage Dam on the western boundary of the lease. The TSS level was elevated as a result of the waterway on the western rehab suffering significant wash during the storm as it had only recently been shaped and seeded. As the TSS was above consent criteria the DECC was notified.

Date	Sample Site	pH	EC	Total Suspended Solids	Oil and Grease
6/02/2008	SD17	7.9	420	476	<2

The above event again followed a storm which caused further sediment transfer from the waterway into the sediment basin below. Following this event, and in view of the difficulty in getting adequate ground cover established, the waterway was cleared of topsoil and subsoil in preference to full rock lining. Rock lining of the waterway is progressing with completion expected in the near future. The DECC was advised of the above exceedance and undertook an inspection of the site. An implementation plan was provided to DECC identifying ongoing actions with regard to completion of rock lining, pumping out of water from SD17 and SB7 and desilting those storages. Tarrawonga Coal will also be undertaking a full review of the Site Water Balance as part of the upcoming AEMR.

Complaints

Since the last meeting there have been no complaints lodged on the complaints line. Direct contact has been made with the Tarrawonga Site Office in relation to blasts on the 23rd April and 1st May from Pam Crosby of "Northam" indicating those particular blasts rattled windows and caused vibration through the house. Blast monitors indicated the blasts were well within compliance limits with highest readings to the south east at Bollol Creek and Templemore, as opposed to readings to the south west at the Tarrawonga monitor. Mrs Crosby was advised to contact the Environmental Officer should she continue to have concerns in relation to blast impacts at the Northam property.

Minutes of the 10th Meeting of the Tarrawonga Coal Mine Community Consultative Committee

Meeting Held: 6th August at 3:30pm

Venue: The meeting held at Tarrawonga Coal Mine Training Room.

1. Present and Apologies

Present: Clr Ken Bates (Narrabri Shire Rep.) Chairman
Clr Colleen Fuller (Gunnedah Shire Rep.)
Mr Casper Dieben (General Manager - Operations)
Mr Danny Young (Environmental Manager)
Mr Jason Conomos (Project Manager)
Mr Peter Laird (Community Rep)
Mr Bart Crosby (Community Rep)
Mr Sandy Bull (Community Rep)
Mr Bob McGregor (Community Rep)
Mr. Tony Jones (Community Liaison Officer)

Special Guest: Mr. Alan Crumley – Regional Manager Toll Resources attended the meeting to discuss problems raised by residents.

Apologies: Mr Chris Burgess (General Manager – New Projects)

2. Previous Minutes

Minutes of the previous meeting were adopted as a true record on the motion of Colleen Fuller and Sandy Bull.

3. Business Arising

- 3.1** The Company is waiting on Spectrum Acoustics to provide results of monitoring at “Ambardo” and “Pine Grove”.
- 3.2** Signage to advise limiting use of exhaust brakes to be put in place.
- 3.3** Work has commenced on repairs to break up of Manilla Road surface and haul road

4.0 General Business

4.1 Mine Progress

Jason Conomos reported production of 349,000 tonnes of coal produced and 2,945,000 bcm of overburden moved during the preceding 3 months.

4.2 Environmental Monitoring Results

Danny Young presented the environmental monitoring results and advised that all results are within the required criteria. An environmental monitoring report was issued to the members at the meeting.

5.0 New Business

5.1 The Chairman introduced the General Manager for Operations, Mr. Casper Dieben, who was attending the meeting due to the impending retirement of Chris Burgess.

5.2 Mr. Alan Crumley addressed the meeting and explained the new procedure to alleviate trucks leaving the mine after 9:15pm. He also spoke on the problems of trucks crossing to the wrong side when coming out of the haul road and onto Manilla Road. It was suggested that the centre line be very clearly marked to ensure the drivers know when they had crossed too far. The matter has been addressed with drivers to minimise potential for future incidents. This issue will continue to be monitored over time.

5.3 The question of when it might be expected that coal would be produced at Rocglen was raised and it was advised that October to November was possible.

5.4 Tarrawonga AEMR has been submitted and review undertaken with agencies. AEMR was accepted by agencies.

6.0 Complaints

6.1 There were no complaints received on the hot line. Three complaints were received by the Environmental Manager as follows:

19th May – Toll B-Double and Orica truck crossed centre line of Manilla Road. Also Toll trucks commencing runs in the morning earlier than the 6:45am start up time. Issue raised with Toll and

Orica.

23rd May – Toll B-double observed travelling out to Tarrawonga after 9:15pm for loading. Matter referred to Toll for investigation.

10th July – Two Toll B-Doubles observed travelling out to Tarrawonga after 9:12pm for loading. Matter referred to Toll and addressed by Alan Crumbley in the meeting.

- 6.2 Mr. Peter Laird reported on an incident which occurred at about 6:15pm on the 10th June. He reported that a dump truck body being transported on a low loader had stopped near the Daracon road works at the intersection of the Rocglen haul road and Blue Vale Road. The truck body and its transporter were blocking the full width of the road and in Mr. Laird's case very nearly caused an accident. The matter is to be investigated.
- 6.3 Mr. Bart Crosby raised the question of a blast which was carried out in excess wind. Mr. Young explained that the wind gauge was not operating properly, and that discussions were held with Mr Crosby prior to the blast to explain the situation. Blast monitoring identified that all criteria was met with no exceedance recorded. The wind vein has since been fixed with blast activities still subject to review of weather conditions.
- 6.4 Mr. Bob McGregor raised a concern with the table drain on the haul road adjacent to "Ambardo" and pointed out that it could be a real danger should a vehicle veer off the road and have its wheel caught in the trench in the table drain. Mr. Jones is to speak with Wayne Parkes regarding remedial action.

7.0 Next Meeting

The next meeting will be held at the Tarrawonga Coal Mine Training Room on Wednesday 12th November at 4:00pm. Meeting advice and agenda will indicate potential for site visit prior to meeting commencement time.

Meeting closed at 4.10pm.

..... / /2008
Ken Bates - Chairman

Tarrawonga Coal Mine Community Consultative Committee Meeting #10

Environmental Monitoring Report, May 2008 – July 2008

Noise Monitoring

Noise monitoring was undertaken on 26th and 27th March as per requirements under the consent. Results from the March monitoring is outlined below:

TCM Noise Monitoring Results 26/27 March 2008 (Day)

Location	Time	dB(A), Leq	Wind Speed	Noise source
N2 Bollol Creek Station	11:35am	41.5	Calm	Birds & Insects (42), TCM(<20)
N2 Tarrawonga	11:58am	38.1	Calm	Birds & Insects (38), TCM(inaudible)
N4 Ambardo (27 Mar)	7:30am	46.7	<0.5m/s, SE	Birds(46), TCM(28)
Pine Grove (27 Mar)	7:10am	53.7	<0.5m/s, SE	Birds (54), TCM(34) Traffic ¹ (<30)

¹ TCM Trucks on the Manilla Road section of the Haul route. Criterion on this section is 60 dB(A).

TCM Noise Monitoring Results 26 March 2008 (Evening)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N2 Bollol Creek	7:02pm	33.8	1.5 m/s, NW	Birds & Insects(44) TCM(<20)
N2 Tarrawonga	6:40pm	35.1	1.5 m/s, NW	Birds & Insects(35), TCM(barely audible)
N4 Ambardo	6:10pm	41.9	1.5 m/s, NW	Birds(41), TCM(34)

TCM Noise Monitoring Results 26/27 March 2008 (Night)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N2 Bollol Creek	12:45am	30.1	<1m/s SSW	Birds and Insects(30), TCM(<20)
N3 Tarrawonga	1:05am	29.8	<1m/s SSW	Birds and Insects(30), TCM(inaudible)
N4 Ambardo (26/3)	11:47pm	36.8	<1m/s SSW	Birds and Insects(37), TCM(inaudible)

The above results indicate TCM was in compliance with consent criteria throughout the monitoring events in March 2008. Additional monitoring was undertaken during the 25-26 June 2008. These results will be presented at the next meeting.

Blast Monitoring

Blasting Results

Since the first shot there have been 115 blasts.

All blasts during this report period have been compliant within the limits of 115dBL and 5mm/s.

To date, the highest overpressure recorded remains at 117.0 dBL recorded at "Bollol Creek Station" on the 5th July 2007. The highest ground vibration recorded is 1.32 mm/s recorded at "Bollol Creek Station" on the 25th January 2008.

Air Quality

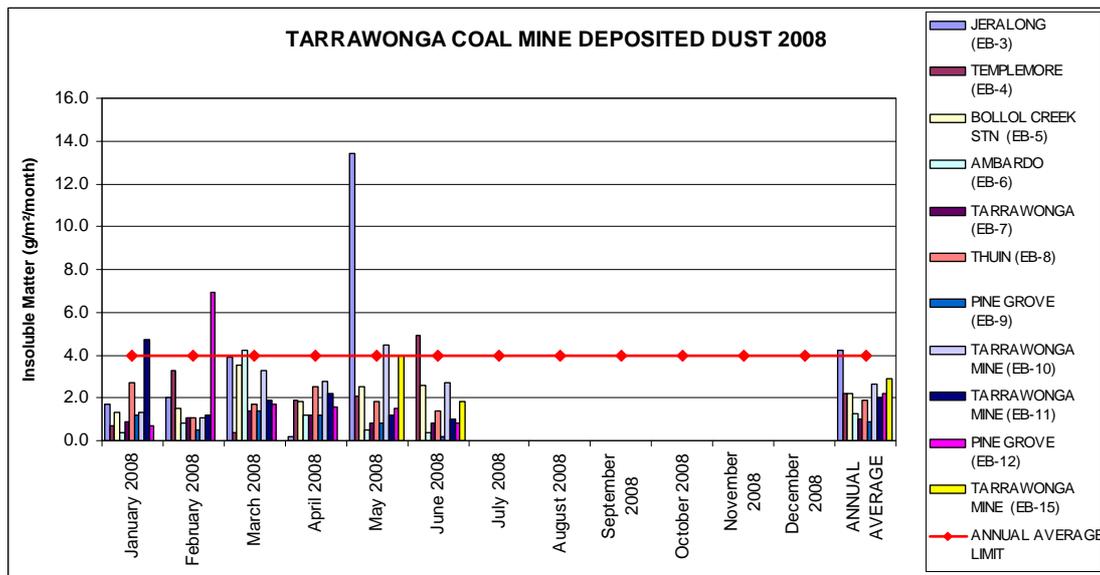
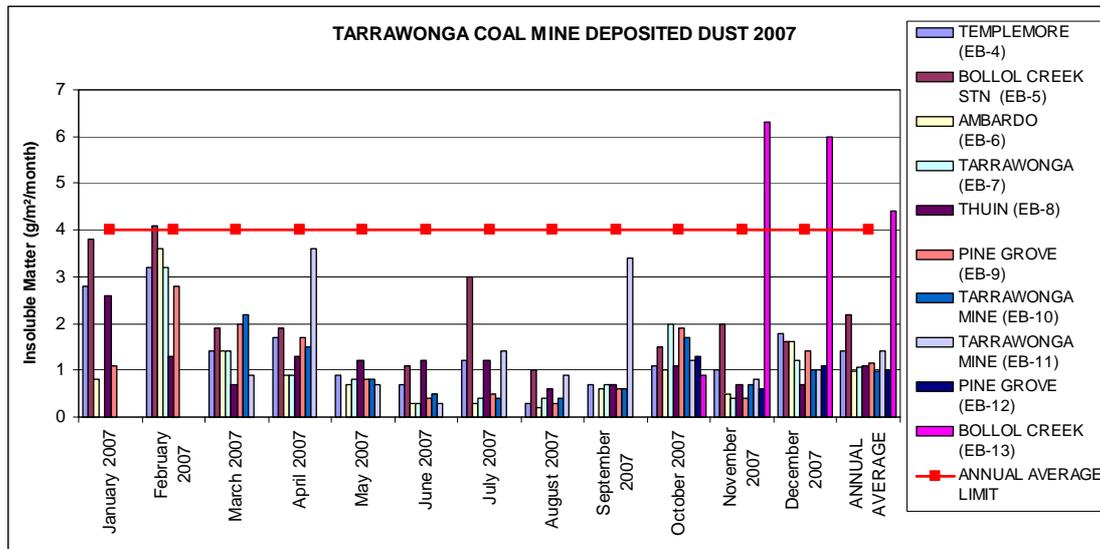
PM10 Results

The annual average for PM10 readings is currently at 16.7ug/m³, which is well below the annual average limit of 30ug/m³.

The highest 24hr reading remains at 49ug/m³ which was recorded on the 5th May 2007, which remained below the 24hr limit of 50ug/m³

Air Quality (Dust Deposition) Results

Month	EB3 Jeralong	EB4 Templemore	EB5 Bollol Creek	EB6 Ambardo	EB7 Tarrawonga	EB8 Thuin	EB9 Pine Grove	EB10 Tarrawonga	EB11 Tarrawonga	EB12 Pine Grove	EB13 Bollol Creek
June 2007	0.6	0.7	1.1	0.3	0.3	1.2	0.4	0.5	0.3		
July 2007	2.0	1.2	3.0	0.3	0.4	1.2	0.5	0.4	1.4		
August 2007	0.6	0.3	1.0	0.2	0.4	0.6	0.3	0.4	0.9		
September 2007	2.1	0.7	N/A	0.6	0.7	0.7	0.6	0.6	3.4		
October 2007	1.5	1.1	1.5	1.0	2.0	1.1	1.9	1.7	1.2	1.3	0.9
November 2007	1.9	1.0	2.0	0.5	0.4	0.7	0.4	0.7	0.8	0.6	6.3
December 2007	1.5	1.8	1.6	1.6	1.2	0.7	1.4	1.0	1.0	1.1	6.0
January 2008	1.7	0.7	1.3	0.4	0.9	2.7	1.2	1.3	4.7	0.7	6.7
February 2008	2.0	3.3	1.5	0.8	1.1	1.1	0.5	1.1	1.2	6.9	2.7
March 2008	3.9	0.4	3.5	4.2	1.4	1.7	1.4	3.3	1.9	1.7	5.7
April 2008	0.2	1.9	1.8	1.2	1.2	2.5	1.2	2.8	2.2	1.6	5.2
May 2008	13.4	2.1	2.5	0.5	0.8	1.8	0.8	4.5	1.2	1.5	3.2
June 2008	NLS	4.9	2.6	0.4	0.8	1.4	0.2	2.7	1.0	0.8	6.3
Average	2.6	1.5	1.9	0.9	0.8	1.3	0.8	1.6	1.6	1.8	4.7



The deposited dust levels have remained relatively consistent over the last 12 months. All monitors with 12 months of data remain will within the 4mg/m²/month consent limit. The recently established EB-13 at Bollol Creek Station is the only monitor which is exhibiting elevated dust levels. This monitor is also inconsistent with adjacent results with EB-5 at Bollol Creek and EB-4 at Templemore. As the Bollol Creek Station residence is now project related, the dust criteria no longer applies at that monitoring point. Nevertheless, Tarrawonga coal will continue to minimise dust impact as much as possible.

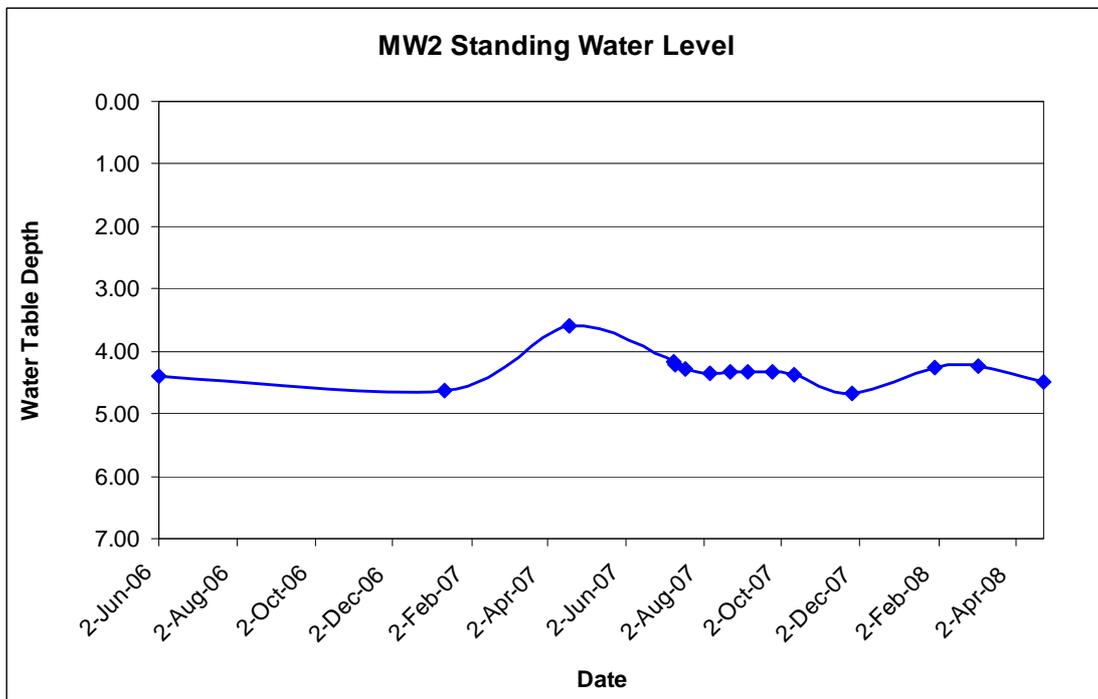
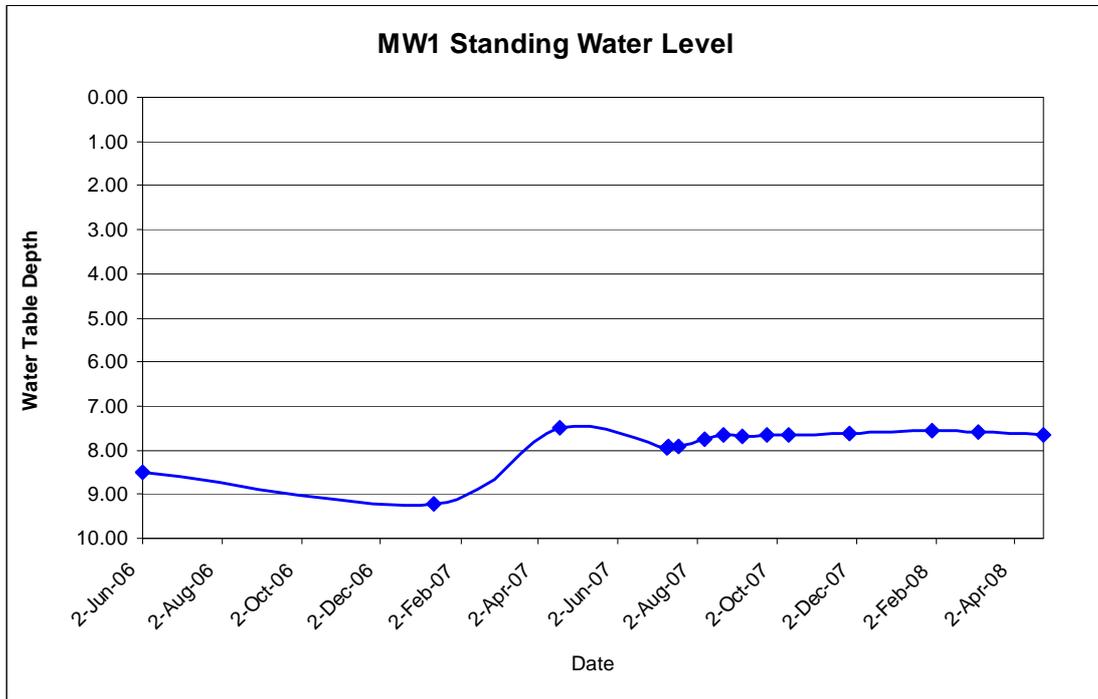
Water Monitoring

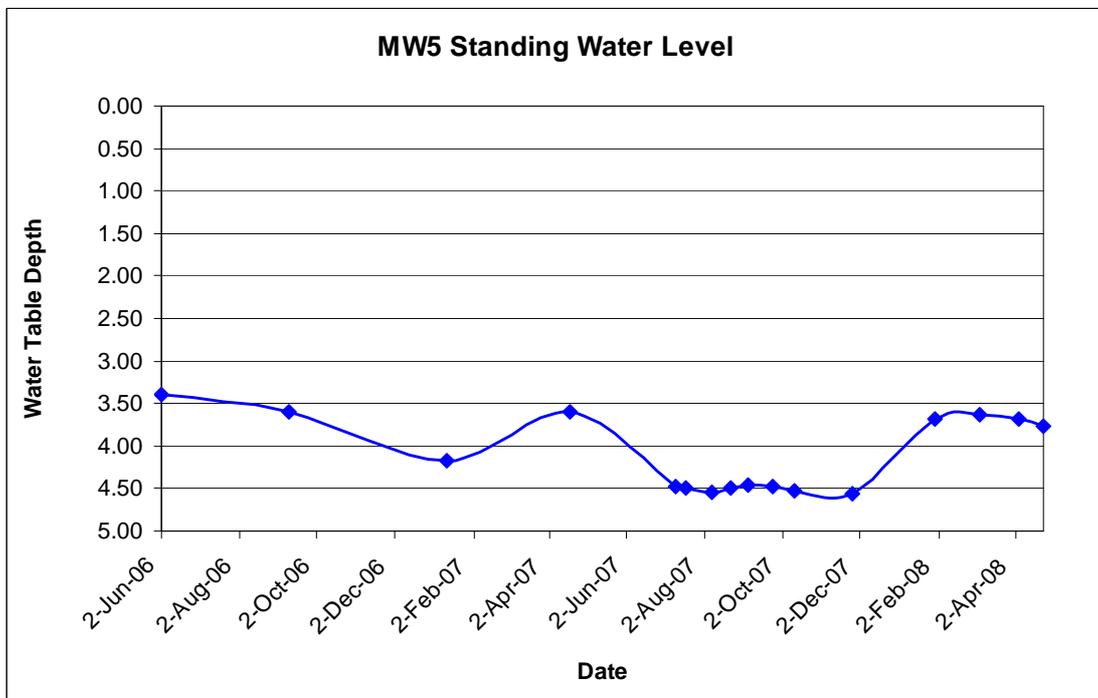
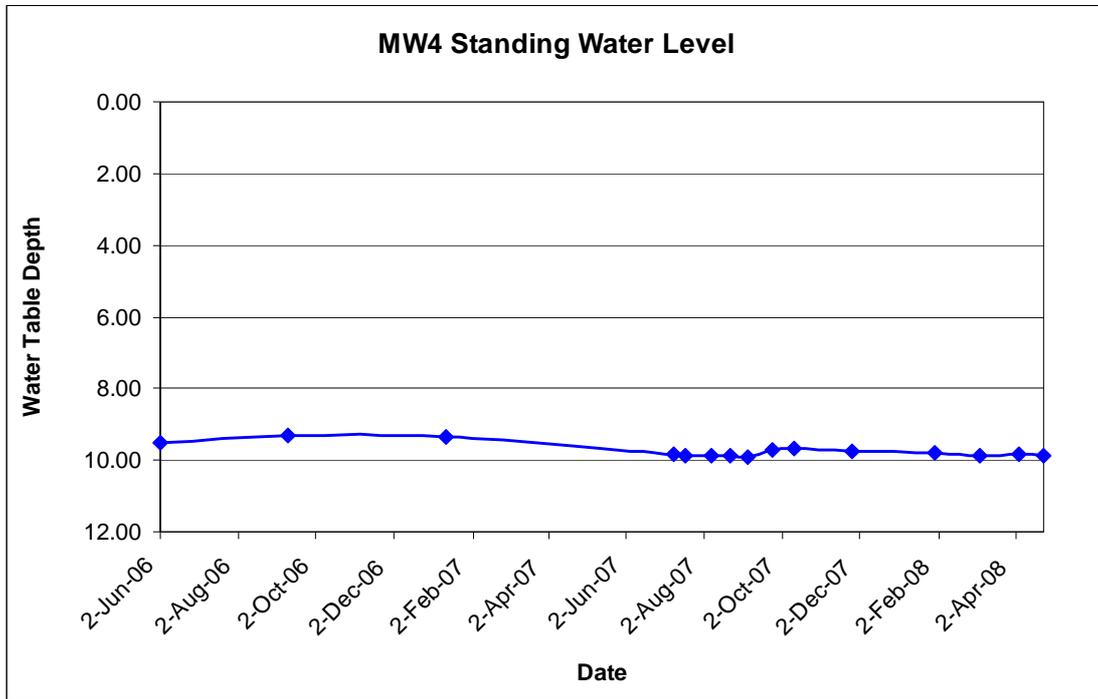
Ground Water

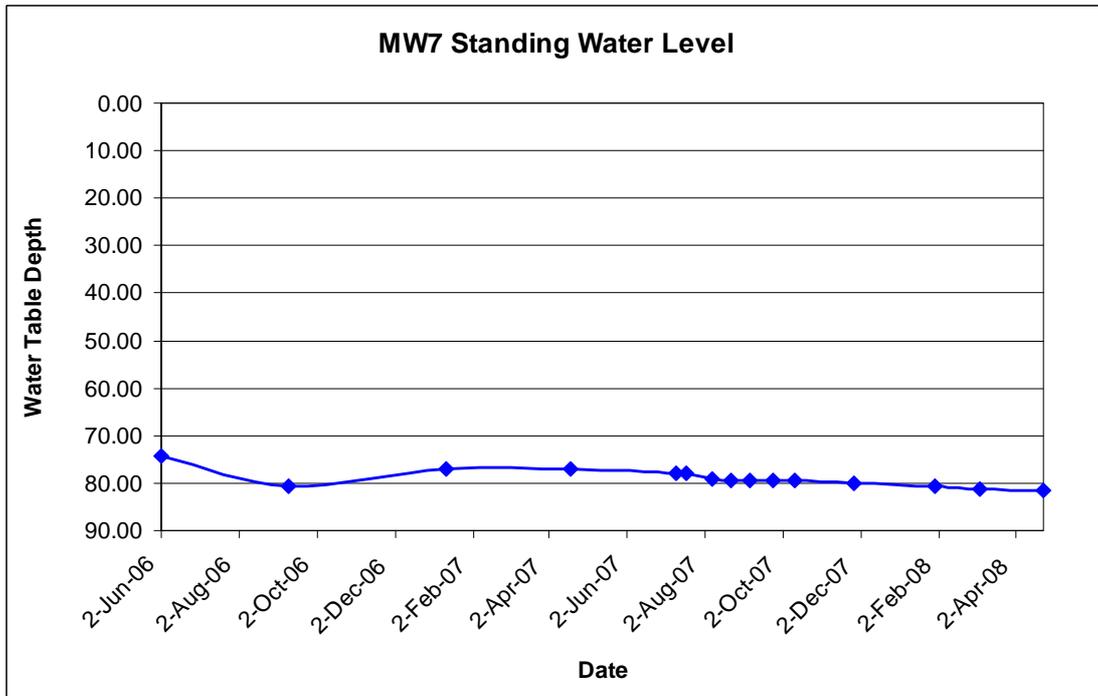
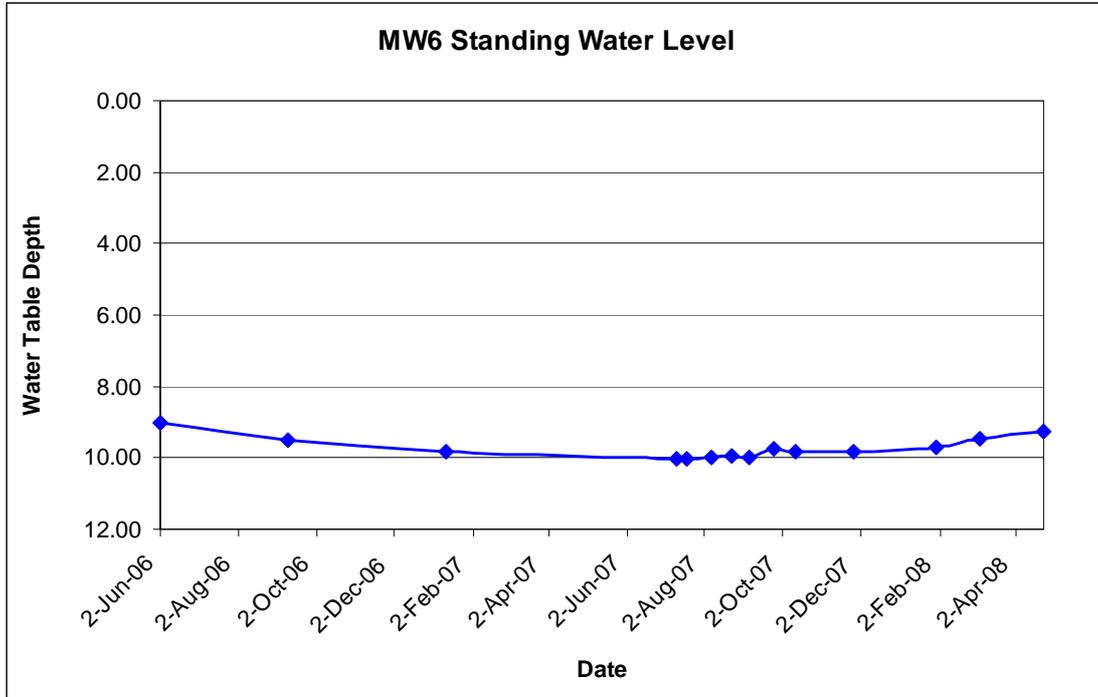
The 6 monthly (full analysis) ground water monitoring was recently undertaken in April by Ecowise Environmental. The results from the monitoring is provided below.

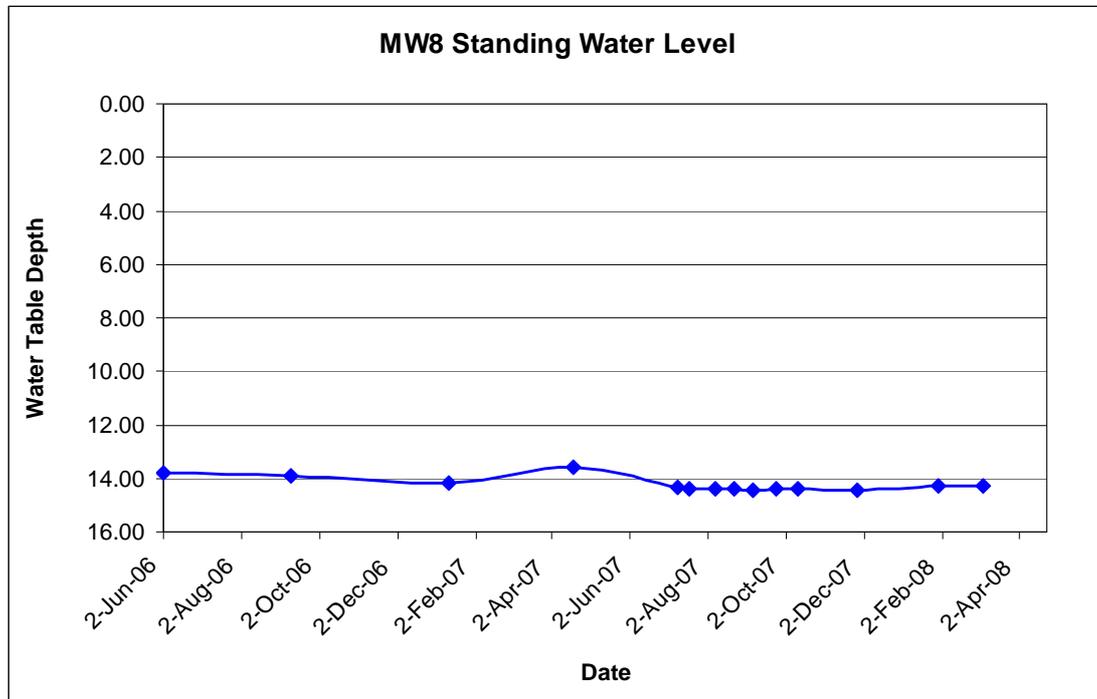
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	September 07	7.66			
	October 07	7.64			
	November 07	7.62			
	January 08	7.55			
	March 08	7.60			
	April 08	7.67	7.3	3120	
	MW2	June 06	4.39	7.0	5440
		January 07	4.62	6.8	511
April 07		3.59			
July 07		4.29	7.1	496	
August 07		4.32			
September 07		4.34			
October 07		4.37			
November 07		4.68			
January 08		4.25			
March 08		4.23			
April 08		4.50	7.3	440	
MW4		June 06	9.49	7.0	3290
		September 06	9.25		
	January 07	9.37	7.1	3430	
	July 07	9.88	6.8	5400	
	August 07	9.87			
	September 07	9.73			
	October 07	9.67			
	November 07	9.76			
	January 08	9.80			
	March 08	9.87			
	April 08	9.88	7.1	5160	
	MW5	June 06	3.38	6.9	1530
		September 06	3.64		
January 07		4.18			
April 07		3.60			
July 07		4.49	7.5	1930	
August 07		4.50			
September 07		4.48			
October 07		4.53			
November 07		4.56			
January 08		3.68			

	March 08	3.63		
	April 08	3.77	7.9	3260
MW6	June 06	8.99	7.3	2030
	September 06	9.54		
	January 07	9.81	6.9	2030
	July 07	10.01	7.5	2060
	August 07	9.95		
	September 07	9.73		
	October 07	9.82		
	November 07	9.83		
	January 08	9.72		
	March 08	9.48		
	April 08	9.28	7.1	2120
MW7	June 06	74.2	7.2	2250
	September 06	80.52		
	January 07	77.0	7.3	1960
	April 07	76.9		
	July 07	77.93	7.2	2250
	August 07	79.28		
	September 07	79.39		
	October 07	79.55		
	November 07	80.17		
	January 08	80.63		
	March 08	81.10		
	April 08	81.68	7.6	2370
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	September 06	13.9		
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	April 07	13.6		
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	August 07	14.40		
	September 07	14.38		
	October 07	14.37		
	November 07	14.43		
	January 08	14.28		
	March 08	14.30		
	April 08	N/S		









The results indicate only minor variability in the ground water levels at each of the TCM monitoring bores. Monitoring will continue on a quarterly basis to generate additional data over time in order to establish ongoing trends in groundwater levels at our monitoring sites. Tarrawonga will be engaging an independent hydrogeologist to undertake analysis and report of monitoring results to date to provide a report to agencies as required under the consent. This report will also be presented to the CCC.

Surface Water

Water quality tests of water in storage dams is undertaken quarterly. The next round of sampling is due to be undertaken over the next two weeks..

There have been no wet weather discharge events from the site since the previous meeting.

Rock lining of the waterway is on the western boundary has been completed. Additional actions of seeding the banks and inflow and outlet channels of the two dams below the waterway is programmed for Spring to further reduce potential for enhanced sediment loads.

Complaints

Since the last meeting there have been no complaints lodged on the complaints line, however three complaints were made by direct contact with the Environmental Manager. These complaints were as follows:

19th May 2008

Toll B-Double crossing centre line when turning onto Manilla Road from Tarrawonga Haul Route – Truck ID was noted and Toll advised to take action.

Orica truck also identified as crossing centre line of Manilla Road on entry from the haul route. Orica was advised of the complaint and request made that their staff be counselled to ensure compliance with road rules.

Toll Trucks also identified as commencing run to Tarrawonga site earlier than expected, with a truck identified running past “Kyalla” at 6:35am in the morning. Toll was contacted and reminded that commencement time from the Whitehaven bin remained at 6:45am in the morning.

23rd May 2008

Toll B-Double observed travelling out to Tarrawonga after 9:15pm for loading. Consent requires cut off of loading at 9:15pm to ensure trucks off the road by 10:00pm. These consent timeframes were reinforced with Toll.

10th July 2008

Two Toll B-Doubles observed travelling out to Tarrawonga passing “Kyalla” at 9:12pm when loading cut off is 9:15pm. The matter was again raised with Toll to ensure full understanding of consent requirements. Toll have since instigated new procedures for operations to address these types of concerns.

Mr Alan Crumbley, Regional Manager for Toll was invited to address the CCC in relation to these matters and actions being undertaken to address concerns raised.

Annual Environmental Management Report 2007-2008

The AEMR for 2007-2008 has been completed and submitted to agencies for review. A copy of the AEMR was also referred to the Chair of the CCC for review and distribution to CCC members.

The on site review of the AEMR was undertaken with representatives from DPI, DECC and DWE. A formal response to the AEMR has been received from DPI to the AEMR advising of acceptance of the report. Generally, all agencies are satisfied with the performance of Tarrawonga in relation to environmental management and rehabilitation on site.

Rehabilitation

Rehabilitation of the western emplacement area has continued with 2000 seedlings (tubestock) planted in June, comprising a range of species including White Box, Yellow Box, Bimble Box, Narrow-leaved Ironbark, Belah, and Kurrajong. This planting covered the entire western face up to the rock-lined waterway. Additional planting on the northern side of the waterway is proposed for Spring 08.

Tarrawonga also proposed to undertake tree planting in strips at the entrance to the site to provide screening from Goonbri Road, as well as along the entrance to the site.



Minutes of the 11th Meeting of the Tarrawonga Coal Mine Community Consultative Committee

Meeting Held: 12th November at 4:00pm

Venue: The meeting held at Tarrawonga Coal Mine Training Room. A site tour was held at 3:15pm for those CCC members that wished to view the Tarrawonga operation.

1. Present and Apologies

Present: Clr Ken Bates (Narrabri Shire Rep.) Chairman
Clr Colleen Fuller (Gunnedah Shire Rep.)
Mr Danny Young (Environmental Manager)
Mr Jason Conomos (Project Manager)
Mr Brian Cullen (General Manager, Technical Services)
Mr Bart Crosby (Community Rep)
Mr Bob McGregor (Community Rep)
Mr. Tony Jones (Community Liaison Officer)

Apologies: Mr Casper Dieben (General Manager – Operations)
Mr Sandy Bull (Community Rep)
Mr Peter Laird (Community Rep)

2. Previous Minutes

Minutes of the previous meeting were adopted as a true record on the motion of Colleen Fuller and Bart Crosby.

3. Business Arising

- 3.1** The matter of signage on the private sections of the haul route to restrict the use of exhaust brakes was discussed. The signage has been ordered and will be erected as soon as it is delivered. This is expected to occur in the next few weeks.
- 3.2** The re-marking of line work at the entrance to Manilla Road has not yet been completed. This is pending the completion of road works to re-construct the Tarrawonga haul route/Manilla Road intersection to address ongoing pavement failure issues. Completion of this work is expected in the next few weeks.
- 3.3** An inspection of the table drain on the Tarrawonga haul route was conducted with David Wellwood and Bob McGregor to ascertain most appropriate option with regard to surface water drainage. The site meeting determined that removal of the dam wall on the Tarrawonga property and lowering of the discharge point may alleviate some of the drainage issues by allowing

water to traverse across the natural drainage path across the Tarrawonga property. Levels were subsequently taken by the site surveyor which indicated a slight rise in elevation at the proposed drainage path. It was agreed that the area of concern is a natural depression and it would not be possible to achieve full drainage of that location, albeit, removal of the dam wall and lowering of the Tarrawonga access track may allow some water to disperse during significant rain events. This matter to be further discussed with the affected parties.

- 3.4** Investigations revealed that the oversize truck on Blue Vale Road as advised by Peter Laird at the last meeting was most likely associated with the transport of a dump truck body to the Rocglen site. Arrangements for transport of the trucks was made by Westrac. The matter was discussed with Westrac to ensure their contract transporters are aware of their obligations on public roads.

4.0 General Business

4.1 Mine Progress

Jason Conomos reported production of 478,000 tonnes of coal and 2,500,000 bcm of overburden moved during the preceding 3 months. In total, Tarrawonga has produced 2.4 million tonnes of coal since commencement. It was also advised that the Tarrawonga operation on any given day will have up to 109 people associated with site operations through direct employment and contractor engagement.

4.2 Environmental Monitoring Results

Danny Young presented the environmental monitoring results which are attached in the associated environmental monitoring report.

5.0 New Business

No new business

6.0 Complaints

- 6.1** There were no complaints received on the hot line.

Mr Wellwood of "Ambardo" contacted the Environmental

Manager wishing to review monitoring results from his property.
The results for the previous two years of operations were
subsequently provided for his review.

7.0 Next Meeting

The next meeting will be held at the Tarrawonga Coal Mine Training
Room on Wednesday 18^h February at 4:00pm.

Meeting closed at 4.50pm.

..... / /2008
Ken Bates - Chairman

Tarrawonga Coal Mine Community Consultative Committee Meeting #11

Environmental Monitoring Report, August 2008 – October 2008

Noise Monitoring

Noise monitoring was undertaken on 25th – 27th June 2008 and 29th -30th September as per requirements under the consent. Results from the monitoring is outlined below:

TCM Noise Monitoring Results 25/26 June 2008 (Day)

Location	Time	dB(A), Leq	Wind Speed	Noise source
N2 Bollol Creek Station	5:20pm	39.2	Calm	Plane(36), Car (33), TCM(26)
N4 Ambardo	7:25am	53.9	Calm	Birds(52), Traffic(46) ² , TCM(42) ¹
N3 Tarrawonga	10:25am	52.9	Calm	Birds(52), TCM(39)
Pine Grove	7:01am	47.9	Calm	TCM(43) ¹ , Traffic(42) ² , Birds(40)

¹ TCM Trucks on the private section of the haul route.

² TCM Trucks on Manilla Road section of the haul route. Criterion on this section is 60dB(A).

TCM Noise Monitoring Results 26 June 2008 (Evening)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N2 Bollol Creek	9:18pm	38.1	0.6m/s, SE	TCM(36) , Wind(32).
N3 Tarrawonga	8:22pm	33.0	Calm	Birds(32), TCM(29)
N4 Ambardo	7:54pm	44.9	0.3m/s, NE	Birds(42), ¹ TCM(41) ¹

¹ TCM Trucks on the private section of the haul route.

TCM Noise Monitoring Results 26/27 June 2008 (Night)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N2 Bollol Creek	12:19am	34.0	1m/s, N	TCM(32) , Wind(29)
N3 Tarrawonga	12:51am	28.3	1m/s, N	TCM(26) , Wind(23)
N4 Ambardo	12:38am	30.4	1m/s, N	TCM(26) , Birds(26)

Review of the above results indicate noise levels above compliance criteria at the Ambardo, Tarrawonga and Pine Grove residences during the day survey. Noise sources at Ambardo and Pine Grove was predominantly from trucks on the private section of the haul route whilst mine noise was predominant at the Tarrawonga residence. On view of the weather station data, it was evident that an intense inversion was present during the morning survey, with intensity measuring in excess of 12°/100m. This level of inversion is outside the scope of “normal” weather conditions and as such the “exceedance” in noise criteria is not a non-compliance against consent conditions.

Similarly, the results from the evening survey also found noise levels in excess of consent criteria at Bollol Creek Station and Ambardo residences. Mine noise was attributed to the Bollol Creek Station survey whilst trucks on the private section of the haul route attributed to the Ambardo survey. An intense temperature inversion was also identified at the time of the evening survey which contributed to the higher noise levels. As a consequence, the noise level from the survey was not deemed a non compliance with noise criteria. Whilst the survey results are not deemed as non-compliance, Tarrawonga Coal recognises that such weather conditions can result in impacts at adjacent receivers. The main issue identified through this survey has been noise from the trucks on the private section of the haul route. This matter is currently being investigated with Toll to determine any actions that could be implemented to reduce noise impact. Results from the September monitoring will be used to verify if truck noise is confined to winter surveys or if it continues through the warmer periods.

TCM Noise Monitoring Results 29/30 September 2008 (Day)

Location	Time	dB(A), Leq	Wind Speed	Noise source
N1 Templemore	3:50pm	39.2	1-2m/s, SE	Birds(36), Wind(35), TCM inaudible
N3 Tarrawonga	3:22pm	36.2	1m/s, SE	Birds(33), TCM(30) ¹
N4 Ambardo	4:37pm	44.5	4m/s, S	Wind(42), Traffic(40) ² , TCM(38) ¹
Pine Grove	10:25am	38.2	Calm	Birds(36), TCM(33) ¹ , Traffic(30) ²

¹Trucks on private section of haul road.

² TCM trucks on the Manilla Road section of the haul road. Criterion on this section is 60dB(A).

TCM Noise Monitoring Results 29 September 2008 (Evening)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N1 Templemore	9:29pm	47.9	1m/s, E	Frogs(47), TCM(<20) ¹
N2 Tarrawonga	8:56pm	40.9	0.5m/s, SE	Frogs(38), TCM(34) ¹
N4 Ambardo	8:29pm	39.4	0.5m/s, SE	Birds(36), Traffic(34) ² , TCM(32) ¹

¹Trucks on private section of haul road.

² TCM Trucks on Manilla Road section of haul route. Criterion on this section is 60dB(A).

TCM Noise Monitoring Results 29/30 September 2008 (Night)

Location	Time	dB(A), Leq	Wind Speed	Noise Source
N1 Templemore	12:21am	40.4	Calm	Frogs(40), TCM inaudible
N2 Tarrowonga	12:53am	36.1	Calm	Insects(36), TCM inaudible
N4 Ambardo	1:18am	32.4	0.5m/s, SE	Frogs(32), TCM inaudible

Results for the September round of monitoring indicate a minor exceedance in noise levels at the Ambardo residence during the day survey, again attributed to trucks on the private section of the haul route. At the time of the survey, wind speed was at 4m/s which is above the allowable range during noise surveys. Again, whilst this noise level is not strictly a non-compliance, trucks on the private section of the haul road are potentially having adverse impacts at the Ambardo receiver and in this regard additional measures are being investigated with Toll to reduce truck noise. Any actions implemented to reduce truck noise will be referred to the CCC at the next meeting.

Blast Monitoring

Blasting Results

Since the first shot there have been 135 blasts.

All blasts during this report period have been compliant within the limits of 115dBL and 5mm/s.

To date, the highest overpressure recorded remains at 117.0 dBL recorded at “Bolloi Creek Station” on the 5th July 2007. The highest ground vibration recorded is 1.47 mm/s recorded at “Templemore” on the 13th October 2008.

Air Quality

PM10 Results

The annual average for PM10 readings is currently at 12.8ug/m³, which is well below the annual average limit of 30ug/m³.

The highest 24hr reading remains at 49ug/m³ which was recorded on the 5th May 2007, which remained below the 24hr limit of 50ug/m³

Air Quality (Dust Deposition) Results

Month	EB3 Jeralong	EB4 Templemore	EB5 Bolloil Creek	EB6 Ambardo	EB7 Tarrawonga	EB8 Thuin	EB9 Pine Grove	EB10 Tarrawonga	EB11 Tarrawonga	EB12 Pine Grove
August 2007	0.6	0.3	1.0	0.2	0.4	0.6	0.3	0.4	0.9	
September 2007	2.1	0.7	N/S	0.6	0.7	0.7	0.6	0.6	3.4	
October 2007	1.5	1.1	1.5	1.0	2.0	1.1	1.9	1.7	1.2	1.3
November 2007	1.9	1.0	2.0	0.5	0.4	0.7	0.4	0.7	0.8	0.6
December 2007	1.5	1.8	1.6	1.6	1.2	0.7	1.4	1.0	1.0	1.1
January 2008	1.7	0.7	1.3	0.4	0.9	2.7	1.2	1.3	4.7	0.7
February 2008	2.0	3.3	1.5	0.8	1.1	1.1	0.5	1.1	1.2	6.9
March 2008	3.9	0.4	3.5	4.2	1.4	1.7	1.4	3.3	1.9	1.7
April 2008	0.2	1.9	1.8	1.2	1.2	2.5	1.2	2.8	2.2	1.6
May 2008	13.4	2.1	2.5	0.5	0.8	1.8	0.8	4.5	1.2	1.5
June 2008	NLS	4.9	2.6	0.4	0.8	1.4	0.2	2.7	1.0	0.8
July 2008	NLS	0.5	1.9	0.3	0.5	1.1	0.4	7.6	0.3	0.6
August 2008	NLS	1.4	6.7	0.9	1.2	2.6	1.4	1.3	0.5	1.1
Average	2.9	1.5	2.3	0.9	0.9	1.4	0.9	1.6	2.2	1.6

The deposited dust levels have remained relatively consistent over the last 12 months. All monitors with 12 months of data remain well within the 4mg/m²/month consent limit.

Water Monitoring

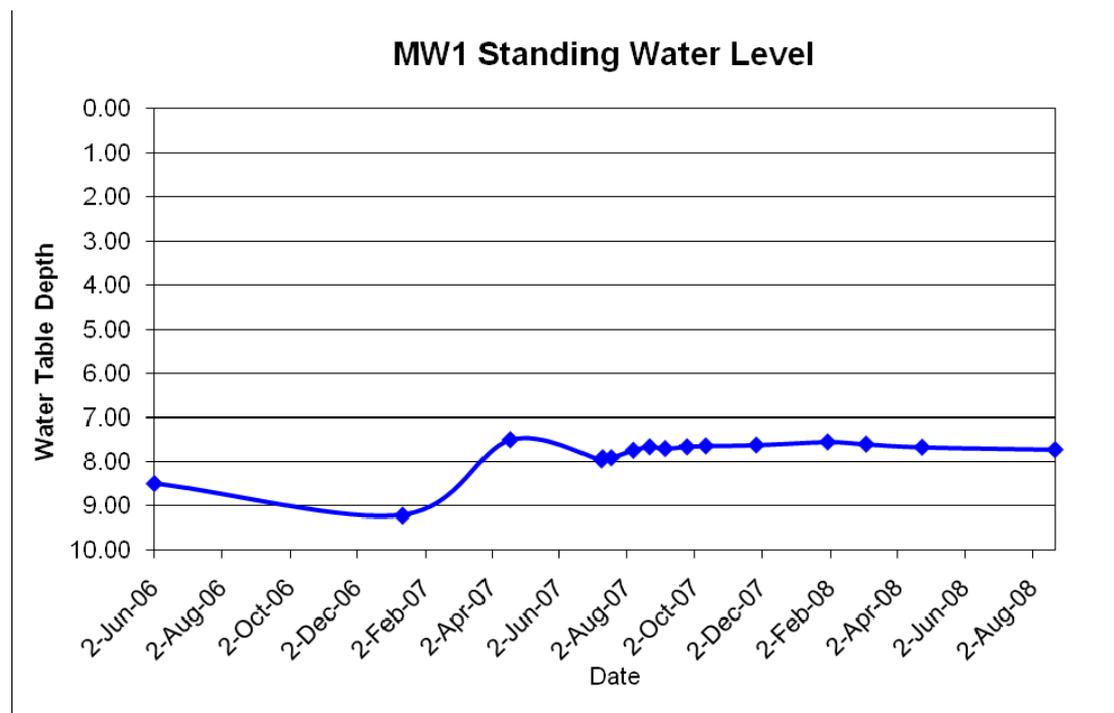
Ground Water

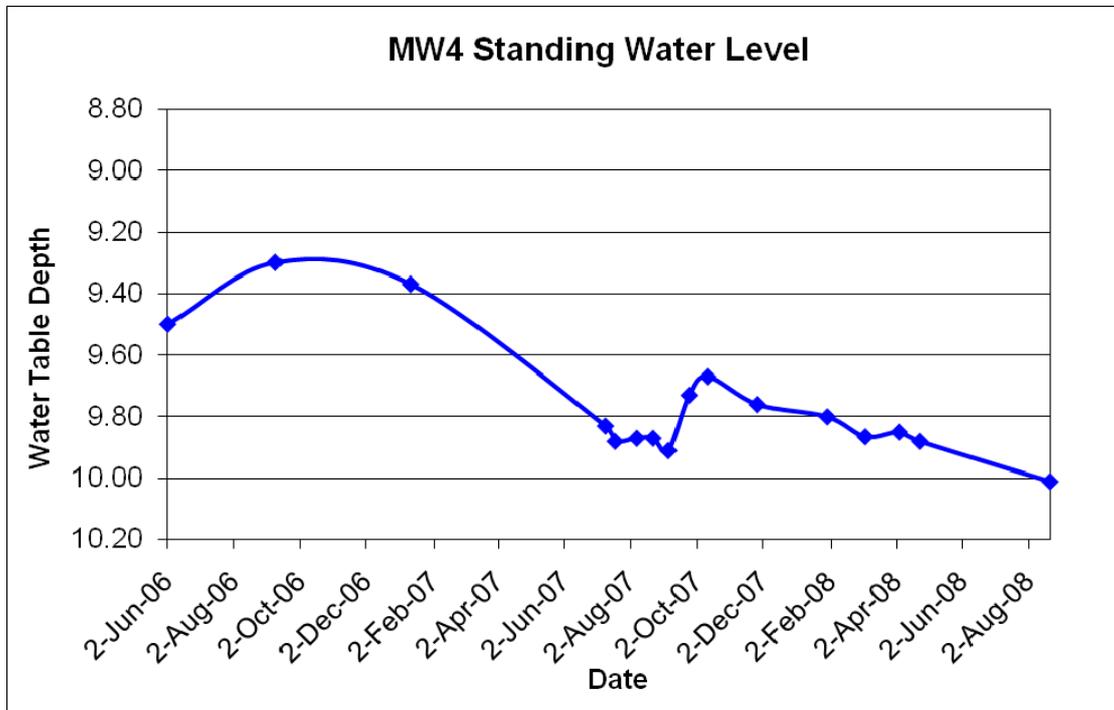
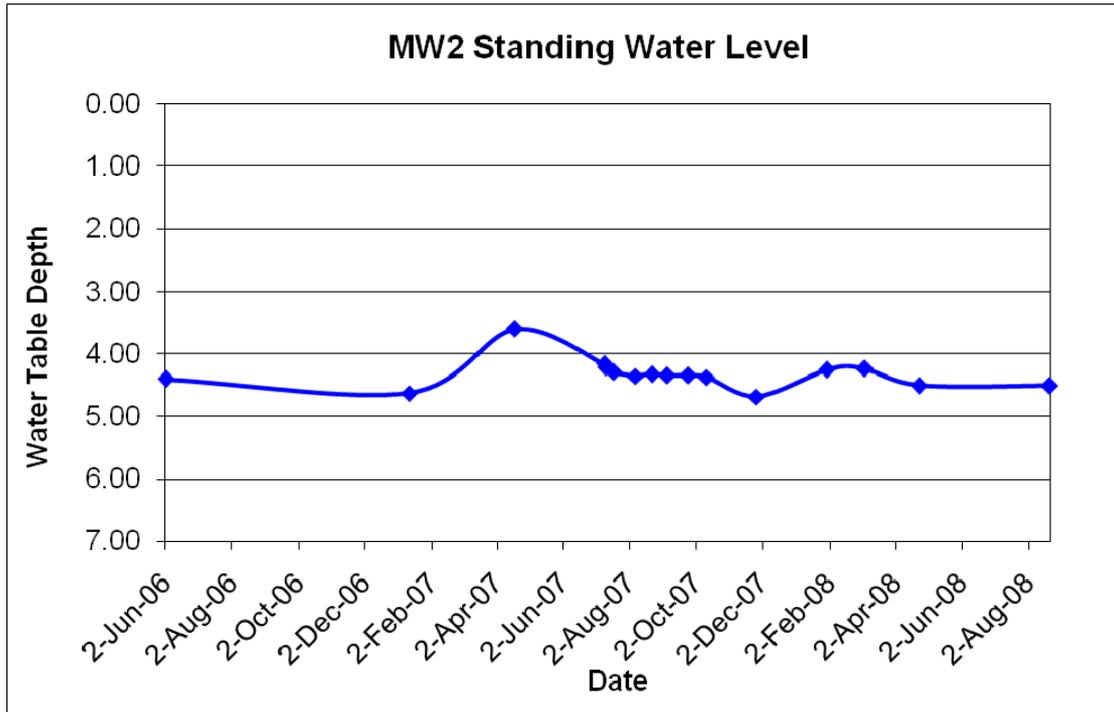
Groundwater monitoring obtained to date is presented in the following table. An additional full water quality sampling round was undertaken by Ecowise in October and we are currently awaiting those results. The results will be presented at the next CCC meeting.

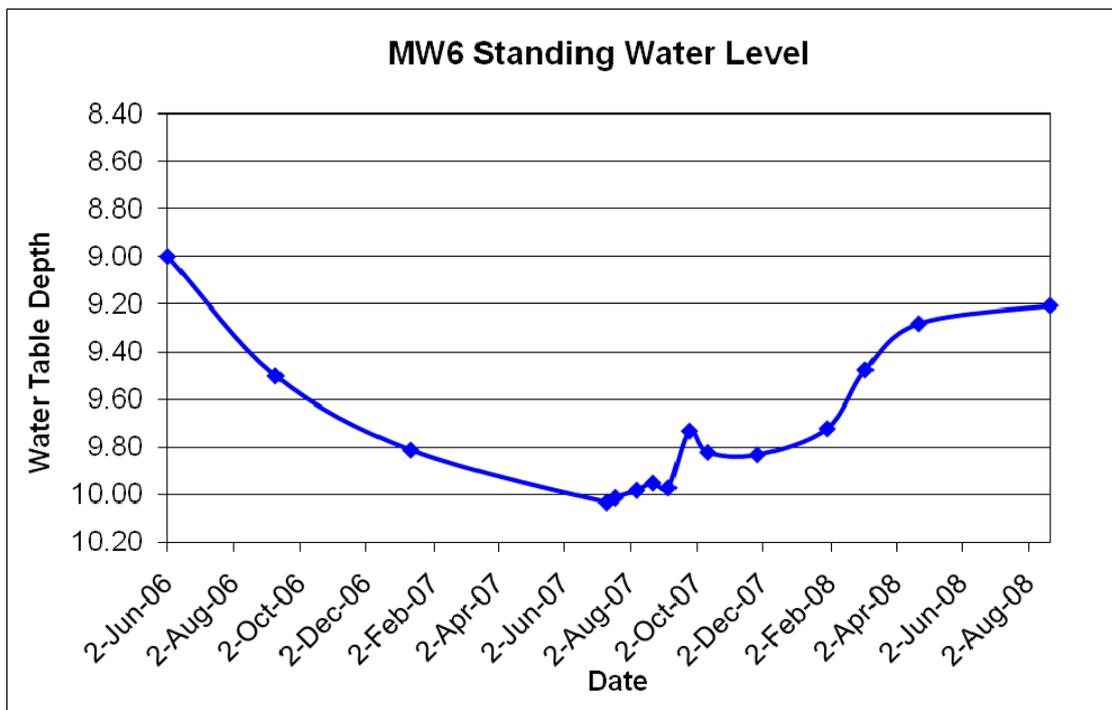
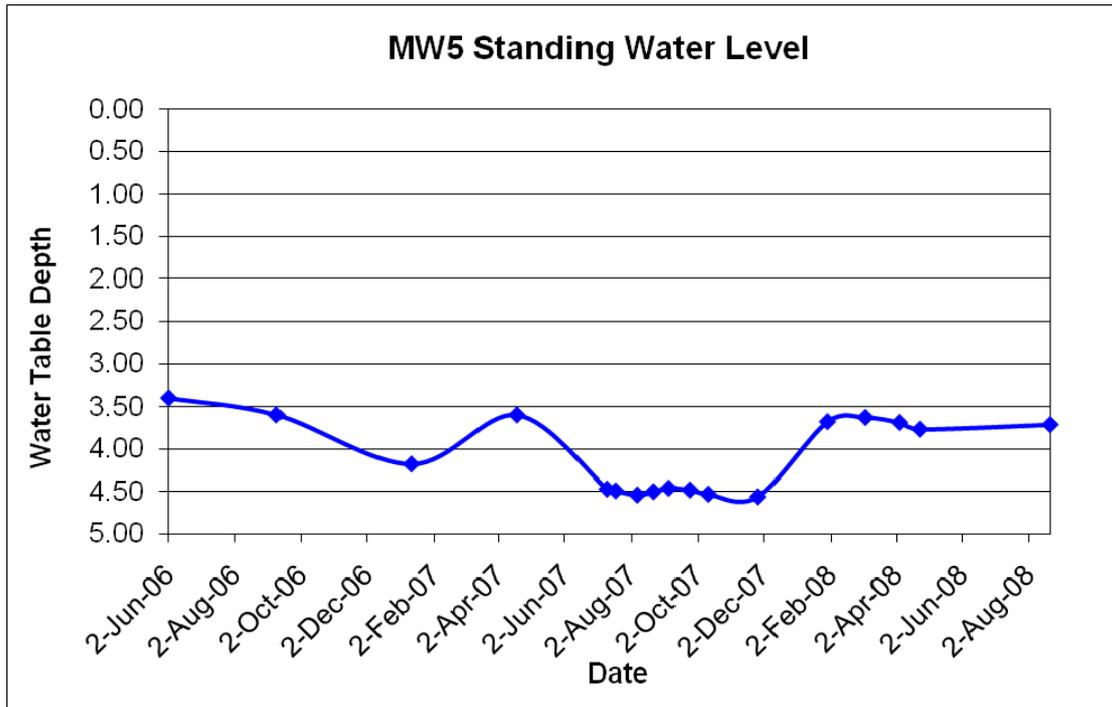
Site	Date	SWL (m)	pH	Elect. Conduct
MW1	June 06	8.54	7.5	6330
	January 07	9.22	7.1	2410
	April 07	7.49		
	July 07	7.91	7.3	2500
	August 07	7.66		
	September 07	7.66		
	October 07	7.64		
	November 07	7.62		
	January 08	7.55		
	March 08	7.60		
	April 08	7.67	7.3	3120
	August 08	7.73		
	MW2	June 06	4.39	7.0
January 07		4.62	6.8	511
April 07		3.59		
July 07		4.29	7.1	496

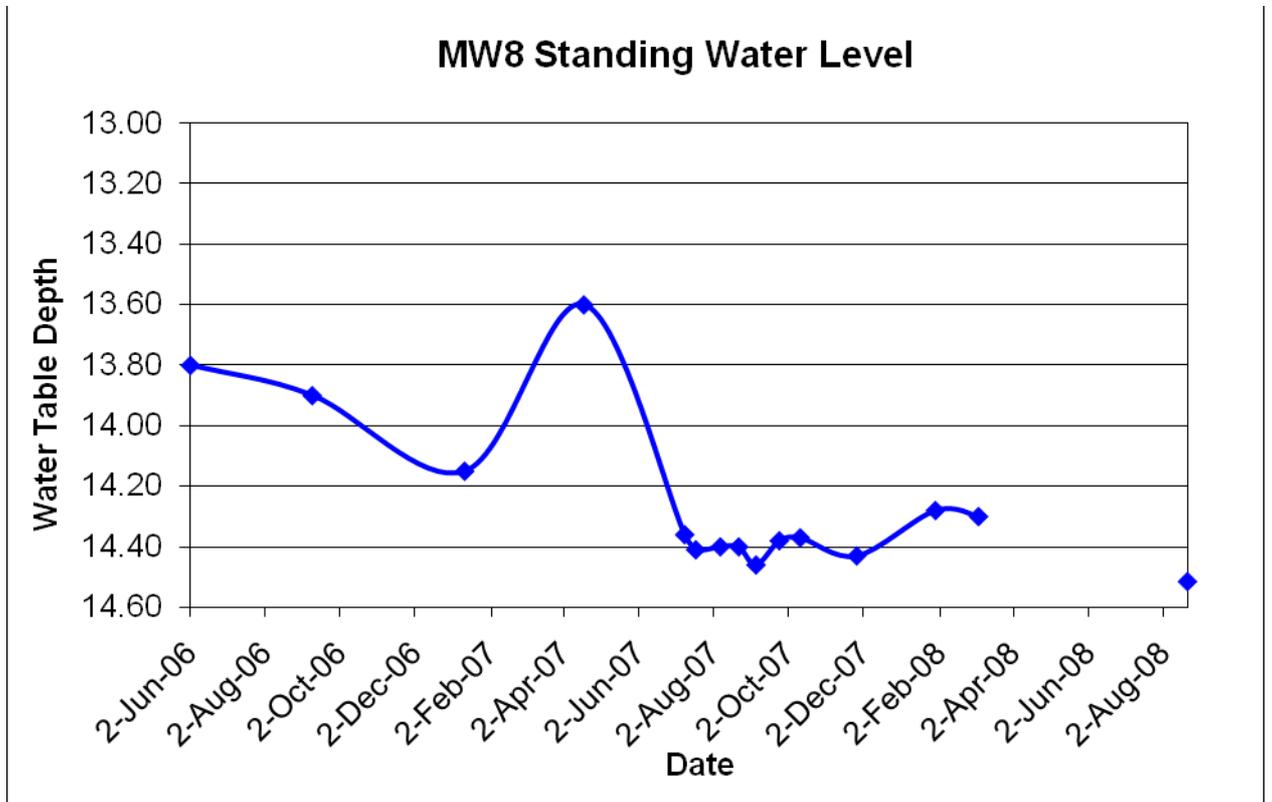
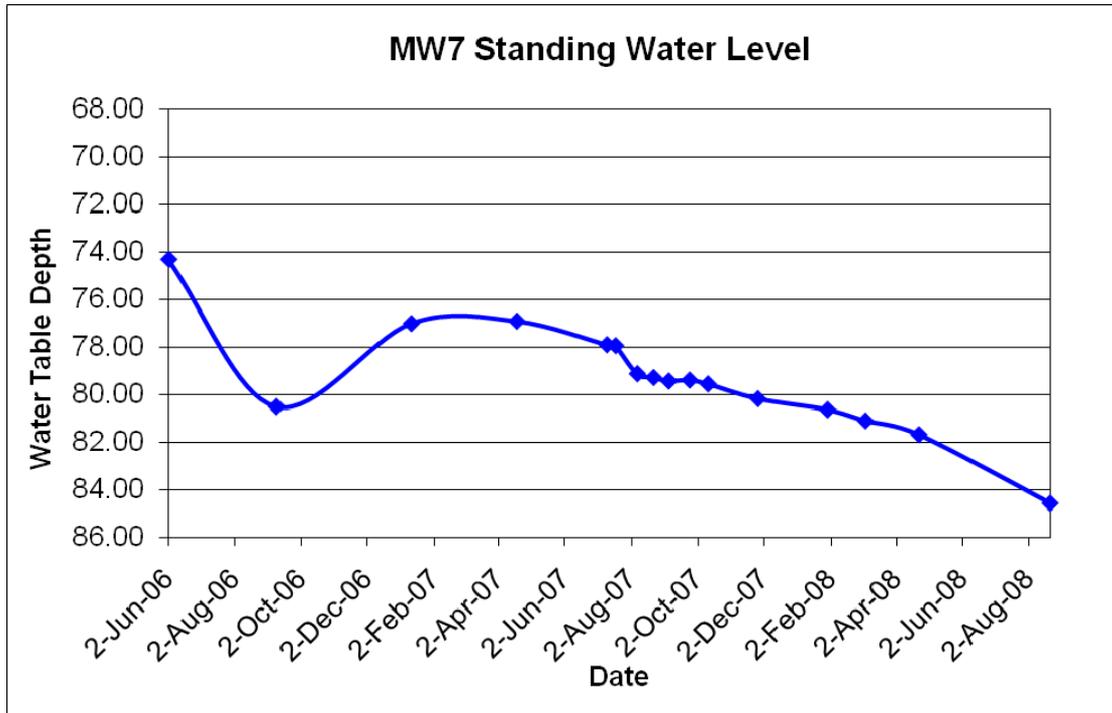
	August 07	4.32		
	September 07	4.34		
	October 07	4.37		
	November 07	4.68		
	January 08	4.25		
	March 08	4.23		
	April 08	4.50	7.3	440
	August 08	4.51		
MW4	June 06	9.49	7.0	3290
	September 06	9.25		
	January 07	9.37	7.1	3430
	July 07	9.88	6.8	5400
	August 07	9.87		
	September 07	9.73		
	October 07	9.67		
	November 07	9.76		
	January 08	9.80		
	March 08	9.87		
	April 08	9.88	7.1	5160
	August 08	10.01		
MW5	June 06	3.38	6.9	1530
	September 06	3.64		
	January 07	4.18		
	April 07	3.60		
	July 07	4.49	7.5	1930
	August 07	4.50		
	September 07	4.48		
	October 07	4.53		
	November 07	4.56		
	January 08	3.68		
	March 08	3.63		
	April 08	3.77	7.9	3260
	August 08	3.72		
MW6	June 06	8.99	7.3	2030
	September 06	9.54		
	January 07	9.81	6.9	2030
	July 07	10.01	7.5	2060
	August 07	9.95		
	September 07	9.73		
	October 07	9.82		
	November 07	9.83		
	January 08	9.72		
	March 08	9.48		
	April 08	9.28	7.1	2120
	August 08	9.21		
MW7	June 06	74.2	7.2	2250
	September 06	80.52		
	January 07	77.0	7.3	1960
	April 07	76.9		
	July 07	77.93	7.2	2250
	August 07	79.28		
	September 07	79.39		
	October 07	79.55		
	November 07	80.17		

	January 08	80.63		
	March 08	81.10		
	April 08	81.68	7.6	2370
	August 08	84.57		
MW8	June 06	13.8	6.7	2240
	September 06	13.9		
	January 07	14.1	6.7	2260
	April 07	13.6		
	July 07	14.41	6.8	2530
	August 07	14.40		
	September 07	14.38		
	October 07	14.37		
	November 07	14.43		
	January 08	14.28		
	March 08	14.30		
	April 08	N/S		
	August 08	14.52		









The results indicate only minor variability in the ground water levels at each of the TCM monitoring bores. Monitoring will continue on a quarterly basis to generate additional data over time in order to establish ongoing trends in groundwater levels at our monitoring sites. Tarrawonga is currently awaiting project proposals from suitably qualified independent consultants to undertake a full review of groundwater monitoring data.

Surface Water

Water quality tests of water in storage dams is undertaken quarterly. The next round of sampling is due to be undertaken by the end of November. Results from the August round of sampling are as noted in the table below:

DATE	LOCATION	pH	EC	TSS	Grease/Oil
22 Aug 08	SD9	7.9	275	35	<2
22 Aug 08	SB5	8.5	955	13	<2
22 Aug 08	Pit Water	8.7	2420	17	<2

There is no compliance criteria relevant to the surface water sampling program.

There has been one minor wet weather discharge event since the previous meeting with monitoring results presented in the following table.

DATE	LOCATION	pH	EC	TSS	Grease/Oil
07 Oct 08	SD17	8.2	735	74	<2
07 Oct 08	SD8	8.9	775	22	<2
07 Oct 08	SB14	8.5	255	43	<2

The above results demonstrate a marked improvement in TSS levels from SD17, which is below the rock lined waterway. Prior to the discharge some minor works had been undertaken to widen the inflow channel from SB7 to SD17 which would have had an effect on increased sediment flow into the dam. This being the case, the TSS level from the discharge is positive. Additional planting works in the inflow to the dam will be undertaken over the next week to enhance vegetation cover and reduce sediment loads.

Complaints

Since the last meeting there have been no complaints lodged on the complaints line, however one complaint was made by direct contact with the Environmental Manager. This complaint was received on the 30th October 2008 and related to no monitoring results being referred to the owner of Ambardo from ongoing noise, groundwater and dust monitoring. Subsequent to the complaint, the full detail of monitoring relative to the Ambardo property was collated and referred to the complainant.

Rehabilitation

Rehabilitation of the western emplacement continues with the remaining section north of the waterway being planted out to native tube-stock this week.