



WERRIS CREEK COAL PTY LTD

ENVIRONMENTAL MONITORING

2nd QUARTERLY REPORT

July, August, September 2008

This report covering the period 1st July 2008 to 30th September 2008 is the second quarterly Environmental Monitoring Report for the 2008/9 Annual Environmental Management Report (AEMR) reporting period (1 April 2008 to 31 March 2009).

The report includes environmental monitoring results for the on-site Weather Station, Air Quality, Noise (operational and blasting), Surface and Ground Water together with complaints received and general detail covering site environmental matters.

Note: Monitoring results with any non compliance of monitoring criteria are highlighted in **yellow**.

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1.0 WEATHER STATION

WEATHER

Weather data was available for 99 % of July.

Weather data was available for 100 % of August.

Weather data was available for 76% of September. Data loss occurred on the .16th – 21st September.

2.0 AIR QUALITY

2.1 HVAS (PM10) Monitoring

High Volume Air Sample (HVAS) monitoring for particulate matter less than 10 micron in size (PM10) is conducted at four sites listed below.

- WCHV1 – “Old Colliery” or Marquettes
- WCHV2 – Pattersons
- WCHV3 – “Railway View” or Ryans
- WCHV4 – “Eurunderee”

In addition a fifth site WCHV5 at “Railway View” continues to sample total suspended particulate (TSP) matter to monitor the PM10/TSP relationship on a voluntary basis to assist with government departmental air quality data collection and correlation.

Sample data is scheduled for 24 hours every 6 days in accordance with DECC – EPA protocols and results are reported as micro grams per cubic metre of air sampled or ug/m3.

2.1.1 Monitoring Data Results

TABLE 1

Werris Creek HVAS results

Date	Marquett (PM10)	Patterson (PM10)	Ryan	Eurunderee (PM10)	Ryan	24hr criteria PM10	annual criteria PM10	TSP	PM10/TSP Ratio
			(PM10)		TSP				
4/07/2008	9	8	3	19	17	50	30	90	18%
10/07/2008	2	2	4	1	5	50	30	90	80%
16/07/2008	5	2	7	7	15	50	30	90	47%
22/07/2008	12	8	8	15	13	50	30	90	62%
28/07/2008	3	1	3	8	4	50	30	90	75%
3/08/2008	5	11	1	1	9	50	30	90	11%
9/08/2008	4	10	6	8	11	50	30	90	55%
15/08/2008	11	14	8	8	17	50	30	90	47%
21/08/2008	19	21	18	21	30	50	30	90	60%
27/08/2008	20	16	17	23	29	50	30	90	59%
2/09/2008	14	9	9	17	19	50	30	90	47%
8/09/2008	15	11	12	23	37	50	30	90	32%
14/09/2008	15	20	17	18	34	50	30	90	50%
20/09/2008	29	31	29	32	46	50	30	90	63%
26/09/2008	12	10	13	11	23	50	30	90	57%

2.1.2 Discussion - Compliance / Non Compliance

All individual PM10 24 hour average results, at all sites, were equal to or below the short term 24 hour impact criteria of 50ug/m³.

All PM10 sites are below the long term impact and land acquisition annual impact criteria of 30ug/m³.

The TSP site is below the long term impact and land acquisition annual impact criteria of 90ug/m³.

2.2 DEPOSITED DUST

In accordance with commitments within the approved Air Quality Monitoring Programme, monthly routine air quality monitoring for Werris Creek Coal continues to be undertaken for deposited dust.

2.2.1 Monitoring Data Results

TABLE 2

Sample Num	Sample Location	Sample Date	Ash g/m ² /mth	Total Insoluble Matter g/m ² /mth	Volume Collected mLs
30656.01	WC1 - Escott	02-Jul-08	0.3	0.3	725
30656.02	WC2 - Cintra	02-Jul-08	0.6	3.7	700
30656.03	WC3 - The Colliery	02-Jul-08	0.8	2	685
30656.04	WC4 - Hillview	02-Jul-08	0.2	0.2	620
30656.05	WC5 - Railway View	02-Jul-08	0.2	0.2	750
30656.06	WC6 - Sth Boundary	02-Jul-08	4.9	6.4	630
30656.07	WC7 - Patterson	02-Jul-08	0.2	0.2	595
30656.08	WC8 - Quirindi Rd	02-Jul-08	0.5	0.6	500
30898.01	WC1 - Escott	14-Aug-08	0.2	0.4	630
30898.02	WC2 - Cintra	14-Aug-08	0.8	1.5	620
30898.03	WC3 - The Colliery	14-Aug-08	1.2	3.2	655
30898.04	WC4 - Hillview	14-Aug-08	0.3	0.6	1530
30898.05	WC5 - Railway View	14-Aug-08	0.4	0.7	1550
30898.06	WC6 - Sth Boundary	14-Aug-08	0.6	1.4	680
30898.07	WC7 - Patterson	14-Aug-08	0.3	0.5	500
30898.08	WC8 - Quirindi Rd	14-Aug-08	0.3	0.5	465
31206.01	WC1 - Escott	12-Sep-08	0.2	0.3	1080
31206.02	WC2 - Cintra	12-Sep-08	0.3	0.6	935
31206.03	WC3 - The Colliery	12-Sep-08	0.3	3	1015
31206.04	WC4 - Hillview	12-Sep-08	0.4	0.7	925
31206.05	WC5 - Railway View	12-Sep-08	0.3	0.6	925
31206.06	WC6 - Sth Boundary	12-Sep-08	1.1	2.6	1110
31206.07	WC7 - Patterson	12-Sep-08	0.2	0.4	885
31206.08	WC8 - Quirindi Rd	12-Sep-08	0.4	0.6	730

Elevated results at WC6 – South Boundary and WC2 – Cintra. The DoP, DECC, and residence of Cintra were notified of the elevated result obtained from Cintra.

2.3 AIR QUALITY COMPLAINTS

There were 2 complaints received regarding excessive dust, see section 6.0.

3.0 NOISE

Noise Monitoring is conducted by Spectrum Acoustics at the following locations:

R2: Zeolite, R3: Cinta, R4: Old Colliery, R5: Mountain View, R6: Hillview (mine owned residence) R7: Railway View, R8: Hazeldene, and R10: Escott. Three sets of measurements are made over the “circuit”, one during the day time period, (before 6pm), one during the evening period (from 6pm – 10pm) and one at night (after 10pm).

The noise emission criterion for WCC is 35dB(A) unless otherwise subject to a current, legally binding agreement between WCC and the occupant of the affected residential property.

Hillview, Railway View and Old Colliery (Marquett) are mine owned residences and as such monitoring results above 35dB(A) are not recorded as non-compliances.

WCC environmental licence conditions indicate that compliance with noise emission criteria is not applicable under atmospheric conditions where wind speeds are higher than 3m/s and/or there is temperature inversion of greater than +3 degreesC/100m.

3.1 OPERATIONAL NOISE

3.1.1 Monitoring Data Results

15 th September	Mountain View	10:05 pm	0.5 m/s	WCC (36) Exceedance of 1 dB(A)LAeq
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TABLE 3

ATTENDED NOISE MONITORING SUMMARY																		
DATE	TIME		R2	WCC	R3	WCC	R4	WCC	R5	WCC	R6	WCC	R7	WCC	R8	WCC	R10	WCC
			Zeolite		Cintra		Old Colliery		Mountain View		Hillview		Railway View		Hazeldene		Escott	
29/07/2008	2:30 PM	5:02 PM	45	38	36	35	45	wcc inaudible	51	wcc inaudible	52	41	48	45	42	wcc inaudible	39	wcc faintly audible
29/07/2008	6:30 PM	8:37 PM	35	34	34	33	46	45	34	wcc faintly audible	44	40	51	45	43	wcc inaudible	32	32
30/07/2008	10:03 PM	12:40 AM	33	34	37	34	42	40	35	34	47	47	53	53	38	37	31	31
18/08/2008	3:11 PM	5:25 PM	48	wcc inaudible	44	39	44	39	40	wcc inaudible	55	42	47	45	31	wcc inaudible	42	wcc faintly audible
18/08/2008	7:15 PM	9:45 PM	31	30	33	33	42	42	27	wcc inaudible	52	50	52	51	35	wcc inaudible	29	28
19/08/2008	10:33 PM	1:18 AM	28	28	37	36	42	42	25	wcc inaudible	52	52	52	51	36	wcc inaudible	29	28
15/09/2008	7:00 AM	9:10 PM	39	34	36	33	55	34	34	wcc inaudible	50	<30	41	38	35	wcc inaudible	41	34
15/09/2008	7:20 PM	9:35 PM	36	wcc inaudible	46	wcc barely audible	44	wcc inaudible	38		41	wcc barely audible	40	33	39	35	37	wcc inaudible
16/09/2008	10:05 PM	12:50 AM	45	wcc inaudible	47	wcc inaudible	55	wcc inaudible	41	36	50	wcc inaudible	50	wcc inaudible	37	35	45	wcc inaudible

3.1.2 Discussion - Compliance / Non Compliance

29th & 30th July 2008 noise monitoring indicated no exceedances.

29th & 30th July 2008 additional noise monitoring at "Marengo" and "Park Hill" properties showed that noise levels at both properties did not exceed the 35 dB(A) Leq (15 min) noise criterion during any of the monitoring periods.

18th & 19th August noise monitoring indicated no exceedances.

15th & 16th September 2008 indicated elevated noise levels at Mountain View registering an exceedance of 1 dB(A)LAeq when there was a light breeze from the North West, contributing to a noise enhancing atmospheric condition in relation to this receiver. The noise was a result of emissions from haul trucks in the pit and general mine hum.

Noise levels listed in Table 3 above 35 dB(A) are not exceedances of the Consent Conditions or Environmental Protection Licence issued for WCC. This may be due to one or a combination of three factors, those being:

- The figures listed underneath the property names are total noise levels captured and can include surrounding noise such as barking dogs, crickets, frogs ect.
- Temperature inversion of greater than +3 degreesC/100m.
- Wind speeds greater than 3m/s.
- Old Colliery, Railway View and Hillview are mine owned properties.
- A private agreement with the landholder.

3.1.3 Action Taken

In relation to the exceedance captured at Mountain View recorded on the 15th September 2008 at 10.05pm, WCC provided written advice to the DoP, DECC and to the residence of Mountain View advising of the exceedance.

Correspondence received from the DoP stated, that "the Department views this as a minor exceedance of the criterion, and will continue to pay close attention to noise monitoring reports of the mine's operations."

3.2 NOISE COMPLAINTS

Five complaints were received regarding noise, see section 6.0.

4.0 BLAST

During this reporting period a total of 19 blasts numbered ORICA 107 to ORICA 126 were fired.

4.1 BLAST MONITORING

4.1.1 Monitoring Data Results

5.0 WATER

Quarterly groundwater and surface water monitoring was undertaken in July 2008 by Ecowise Environmental.

4.1 GROUND WATER

4.1.1 Monitoring Data Results

See Appendix 1 - Groundwater Monitoring Results.

4.1.2 Discussion - Compliance / Non Compliance

No recorded exceedances.

4.2 SURFACE WATER

4.2.1 Monitoring Data Results

See Appendix 2 – Surface water monitoring.

No surface water discharge events occurred during this period.

4.2.2 Discussion - Compliance / Non Compliance

No exceedances.

6.0 COMPLAINTS SUMMARY

8 Complaints were received during this period.

TABLE 5

Telephone Call to Lindin Cini	Mr. Neville Davies "Marengo"	No 28 10/07/2008 10.00am	Noise complaint for 8 th & 9 th July 2008. Noise became loud between 10.00pm – 4.00am.	Complaint relayed to Peter Easey, Danny Young & Casper Dieben. Mr. Davies requested to speak to senior management.	Lynden Cini advised Mr. Davies that emails requesting a meeting had been forwarded to management.
Telephone call to Danny Young	Mr. Noel Taylor "Park Hill"	No 29 15/07/2008 2.00pm	Blast at 1.00pm shook windows of residence. Concerns raised in relation to mine noise of a night during the week.	Lynden Cini visited Mr. Taylor on 18 th July with copies of Orica blast report from 'Glenara' which did not trigger.	Noise monitoring planned at "Park Hill" for July 2008.
Message left on complaints line	Mr. Neville Davies "Marengo"	No 30 13/08/2008	Excessive dust plume coming from mine and onto Mr. Davies property between 5.00pm and 6.00pm.	Lynden Cini called Mr. Davies & explained that WCC was not working at that time. Compliant details forwarded to MME for explanation. MME stated that there was no more dust than normal from pit but that MME were pulling water from bore as issue with site pump which was taking 20-40 minutes longer. Peter Ryan from "Railway View" did not note excessive dust moving through his property at the indicated time.	Lynden Cini and Peter Easey to meet with Mr. Davies on 18 th August 2008.
Telephone Call to office. Lisa Single scribed details of complaint	Mr. Noel Taylor "Park Hill"	No 31 21/08/2008 2.30pm	Blast at 1.15pm vibrated windows at house.	Messages left with Mr. Taylor 22/08/2008 and 26/08/2008. L Cini spoke to Mr. Taylor at CCC meeting and asked if he would like WCC to undertake blast monitoring. Mr. Taylor declined offer as rare occurrence.	
Telephone call direct to MME OCE	Mr. Jeff Woods "Preston Park"	No 32 01/09/2008 1.42am	Noise Complaint	OCE on shift ceased excavator operations on the high wall and walked digger deeper into the pit to continue operations	Whitehaven is currently under negotiations with Mr. Woods.
Telephone Message left on complaints line	Mr. Neville Davies "Marengo"	No 33 08/09/2008 6.00pm	Excessive dust coming from mine and onto "Marengo".	Lynden Cini telephoned Mr. Davies after arriving on site to discuss complaint. Lynden Cini explained water carts were operating on Monday and dust monitoring undertaken at "Railway View" will be checked for exceedances.	Peter Easey is continuing discussions with Mr. Davies on behalf of Whitehaven Coal and are working towards a resolution.
Telephone message to complaints line.	Mr. Neville Davies "Marengo"	No 34 08/09/2008 9.15pm	Excessive noise coming from mine disturbing residence.	Lynden Cini telephoned Mr. Davies after arriving on site to discuss complaint. Lynden Cini explained operations were being undertaken for normal overburden removal on Monday night. Lynden Cini offered continuous noise monitoring at "Marengo" however Mr.	Peter Easey is continuing discussions with Mr. Davies on behalf of Whitehaven Coal and are working towards a resolution.

				Davies stated he did not believe the negative results previously obtained and that noise monitoring meant nothing to him.	
Telephone call direct to WCC office	Mr. Noel Taylor "Park Hill"	No 35 12/09/2008 10.00am	Noise complaint. Noise over last three nights has disturbed Taylors.	Peter Easey to speak to Mr. Taylor and offer additional monitoring at "Park Hill".	

7.0 GENERAL

The AEMR on site review was held 9th of September 2008. Representatives from a wide range of Government Departments attended. Overall response was that the AEMR was well received and that in general most officials were pleased to see great progress with the rehab area to the east and south.

The 9th Community Consultative Committee meeting was held 4th September 2008.

Please feel free to ask any questions in relation to the information contained within this document during item 7 of the meeting agenda.

Sincerely

Lynden Cini