

Werris Creek Coal Mine Community Consultative Committee

Tenth Meeting of the Committee

Whitehaven Training Room, Werris Creek Coal Mine

10.00am 17th February 2009

MINUTES

1. Record of Attendance Ron Short (Chairman); Jill Coleman (Community Representative); Noel Taylor (Community Representative); Chris Holley (Community Representative); Des George (Whitehaven); Neil McGarry (LPSC); Danny Young (Whitehaven); Mick Post (Whitehaven); Lynden Cini (Environmental Officer WCC); Lee McDonagh (WCC).

Apologies: None

2. Matters Arising

Noel Taylor queried if Tony Ryan had to be replaced. Refer General Business.

Coal Dust on trains. Refer General Business.

Noel Taylor queried backfilling and the dump emplacement on the western side. Des George explained that the area Noel was referring to would be shaped and rehabilitated.

3. Minutes of Previous Meeting

Chairman referred to letter that was going to be written to Pacific National by Merv Prendergast (LPSC).

Chairman referred to letter that was going to be written by WCC and sent from CCC.

Both letters to be followed up by chairman.

Minutes of the previous meeting 4th September 2008 accepted as true representation of business conducted on day. Motion moved.

Moved Jill Coleman, Seconded Noel Taylor.

4. Declaration of Pecuniary or other interests

Noel Taylor called the WCC complaints line a number of times during the quarterly period.

5. New Matters for discussion under General Business

- Company Organisational structure
- Correspondence from Department of Planning
- Correspondence from Liverpool Plains Shire Council

6. Remuneration to CCC Members

Chairman referred to letter from Whitehaven with regards to remuneration that was mailed to all CCC members.

Lynden Cini called for comments from CCC members.

Jill Coleman – “can understand company’s viewpoint and does not wish to be compromised”.

Noel Taylor – suggestion that Chairman Ron Short be reimbursed for expenses incurred.

Danny Young explained that he spoke to the Department of Planning to get an idea of what other Consultative Committee’s were doing. The response from DoP was that situations were varied. Some committee’s were receiving remuneration, some only the chairman and some committee’s were receiving no remuneration. He also said that Whitehaven did not want to see any alignment of CCC members with the company.

Chris Holley – “As far as expenses go – maybe remuneration for fuel but the chairman should be reimbursed for expenses”.

Ron Short – as independent chair, he understands the company’s policy and can understand how the community may perceive matter if members were remunerated. He does not need the money “but would prefer to see a “meeting attendance fee” which accrues each meeting and is then put back into the local community. Handling expense to allocate an amount of money (\$4000 suggested) a year that could be distributed within the community and decided by CCC members as to where it goes.

Danny Young – “if the chairman was to respond to his Whitehaven letter putting his suggestion forward he will take that proposal to Whitehaven management”.

Ron Short stated that in this way impartiality remains which was agreed to by Chris Holley.

Lynden Cini commented that if members were to decide where the money is spent than a degree of impartiality is lost.

Ron Short – determining where money would be spent would be up to CCC members and voted on. That it must be a group decision as to neediest recipients. He stated that he would be happy to write a letter to Whitehaven regarding this matter. He is also happy to bear cost of chairman job and reimbursement of expenses would only complicate matters.

Neil McGarry – felt that DoP should be remunerating members and should have steps in place to address this type of issue.

General discussion followed regarding Government bodies and remuneration.

Motion Moved that the Chairman write to Whitehaven with a proposal as discussed that does not directly benefit CCC members.

Moved by Chris Holley and seconded Jill Coleman.

7. Discussion Quarterly Monitoring Results July, August, September 2008

Lynden Cini presented overview of results noting the following:

1. Weather station has now been replaced after data loss occurred again in December.
2. HVAS – no exceedances
3. Deposited Dust – one exceedance with written advice to Cintra and DECC.

Chairman asked Noel Taylor if he had any questions and if not would he step outside whilst complaints were discussed.

Lynden Cini explained how this quarter saw the end of negotiations and a resolution with Neville Davies after a large amount of additional noise monitoring was conducted at the property with all results indicating well below licence limits.

Ron Short asked if results were validated.

Lynden Cini replied that all analysis is validated through and independent and approved noise consultant and results undertaken were under the licence limits. Danny Young added that not only the blast monitoring at Neville Davies but also at the property "Railway View" results were clearly within the limits.

Lynden Cini followed with discussion of Taylor complaints, stating that Peter Easey and Lynden Cini spoke in person to Noel and his family on numerous occasions. Additional monitoring at "Park Hill" took place, complaints have continued into the next quarter and that test results showed no exceedances.

Jill Coleman asked if the problems that Taylor's were experiencing could happen under inversion conditions. Lynden Cini replied yes.

Chris Holley asked "how can windows rattle."

Lynden Cini explained how they have constantly been visiting "ParkHill" with continued negotiations into the next quarter.

Followed by general discussion about/monitoring/inversion and that depending on the atmospheric conditions the noise could be louder but due to these conditions may not be an exceedance. Lynden Cini explained that after numerous complaints and attempts to resolve the noise issues at the Taylor property has been resolved during the current quarter.

*Motion Moved that Quarterly results be accepted.
Moved by Jill Coleman and seconded Noel Taylor.*

8. Proposed Minor Extension SOEE

Danny Young – active mining limit beyond DA Consent. Requires modification of Consent to extend boundary as shown on map distributed amongst members. Extends mine life by another 3-4 years and goes through underground workings.

Lynden Cini explained that there is about 320 megalitres of underground water contained within the old underground workings and this will need to be dewatered. Surface water structures to be built on an as needs basis for long term water storage pending approval.

Jill Coleman asked about the quality of the water.

Danny Young responded that it is classified as pit water and must be contained and used on site. The company may utilize water for irrigation purposes on site but would need approval from Dept of Water.

Ron Short asked the extent of development. Danny Young replied potential area depends on economic factors. Jill Coleman asked if the coal from the extension area would be the same quality as that out of the current area. Lynden Cini and Danny Young agreed it should be of similar quality. Chris Holley asked if economic crisis was affecting company. Des George said

that the Werris Creek mine was not affected at this stage but the other Whitehaven mines which have different coal quality were feeling the effect of the downturn.

9. General Business

1. History of Underground Workings update – Ron Short stated that due to the plans given for the extension that emphasis must be placed on getting the history together. Ron Short asked if there would be a residual water structure that could be environmentally/recreational used in the community. Lynden Cini said that the water would need to be used for dust suppression purposes etc as it is believed that once the water is extracted, the only water sources on site will that which is retained after rain events . The water held in the underground workings is an independent body of water which has accumulated after rain events over a number of years.
2. Letter to Pacific National – Committee to forward letter to Pacific Nation raising issue of dust from trains. Ron Short also will speak to Merv Pendergast. This needs to be done in the next week or two. Lynden Cini to assist draft letter.
3. Organisational Structure – By Des George. Marshalls Mining and Earthmoving are no longer on site. As of January 2009 Whitehaven is the soul operator at the Werris Creek Mine. Mick Post is the appointed Project Manager and Des George is the Manager of Mining Engineer and he has the statutory responsibilities of the DA Consent. There has been new machinery introduced. Blasting/Drilling is contracted and some maintenance on machinery is contracted.
4. Dust – discussed previously
5. Department of Planning correspondence dated 22nd September 2008 and titled WCC – Resignation of Community Consultative Member. There is no requirement to replace Tony Ryan at the stage.
6. LPSC correspondence dated 27th October 2008 re Bob Stewart’s resignation from Council. Merv Pendergast is the new council delegate to replace Bob Stewart.
7. Other – Neil McGarry stated a thank you from Council for the donation from Whitehaven for the Werris Creek Library.

10. Next Meeting

Thursday 12th March 2009 at 10.00am at the Whitehaven Training Room.

Copy to:

Ron Short	Chairman
Chris Holley	Local Community Representative
Jill Coleman	Local Community Representative
Noel Taylor	Local Community Representative
Lindsay Bridge	Local Community Representative

Anna Bradley	DoP
Monique Meyer	DPI
Merv Pendergast	LPSC

Des George	Whitehaven Coal
Mick Post	Whitehaven Coal
Casper Dieben	Whitehaven Coal
Danny Young	Whitehaven Coal
Lynden Cini	Whitehaven Coal
Peter Easey	Whitehaven Coal



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		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

TABLE 4

Shot number	Shot ID	Date fired	Time Fired	Environmental Monitor Results							
				Glenala		Railway View		Old Colliery		Escott Road	
				Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
107	S8_1_370	3/07/2008	1.10	-	-	1.59	106.4	2.03	106.5	0.74	96.8
108	S7_3_Fseam2	8/07/2008	1.01	-	-	0.25	104.6	-	-	-	-
109	S8_234_370	15/07/2008	12.59	-	-	2.16	110.9	0.63	101.4	0.46	96.8
110	S7_9_320	23/07/2008	1.06	-	-	1.91	108.5	0.58	98.9	-	-
111	S8_910_370	25/07/2008	1.04	-	-	0.1	110.2	0.33	110.3	-	-
112	S8_567_370	1/08/2008	1.06	-	-	2.31	113.9	1.45	108.9	0.59	102.8
113	S8_2_Fseam	4/08/2008	1.07	-	-	0.45	100.2	0.43	101.4	-	-
114	S9_910_390	7/08/2008	1.08	0.08	111.6	0.86	113.2	2.33	106.8	-	-
115	S7_678_340	13/08/2008	1.08	-	-	2.62	111.2	2.88	110.9	0.51	96.8
116	S9_1-4_400B	22/08/2008	1.13	-	-	1.13	113.5	-	-	0.74	101.8
117	S7_2_335	25/08/2008	1.45	-	-	-	-	-	-	-	-
118	S8_8_370	26/08/2008	1.09	-	-	1.38	114.2	1.23	112.7	1.11	109.8
119	S8_2_370B	3/09/2008	9.04	-	-	0.55	111.2	-	-	-	-
120	S8_1_370B	4/09/2008	1.09	-	-	0.48	106.4	-	-	-	-
121	S9_1-4_400B	5/09/2008	1.07	-	-	0.55	112.4	0.52	110.5	-	-
122	S9_1-4_400B#2	9/09/2008	1.12	-	-	-	-	1.68	113.1	0.33	102.3
123	S8_345_355	12/09/2008	1.05	-	-	-	-	0.68	94.2	0.28	96.8
124	S8_345_355B	17/09/2008	1.06	-	-	-	-	1.38	104.9	-	-
125	S7_910_fseam &	25/09/2008	1.14	-	-	0.9	104.9	0.61	106.7	-	-
126	S8_678_355A	30/09/2008	1.08	-	-	-	-	3.21	108.9	0.92	104.9

4.1.2 Discussion - Compliance / Non Compliance

All blasts complied with blast criterion.

4.1.3 Action Taken

No Actions necessary.

4.2 BLAST COMPLAINTS

Two Complaints received regarding blasting, see section 6.0.

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

Werris Creek Coal Mine Community Consultative Committee

Eleventh Meeting of the Committee

Whitehaven Training Room, Werris Creek Coal Mine

10.00am 12th March 2009

MINUTES

1. Record of Attendance:

Ron Short (Chairman); Jill Coleman (Community Representative); Chris Holley (Community Representative); Des George (Whitehaven); Merv Prendergast (LPSC); Lynden Cini (Environmental Officer WCC); Lisa Single (WCC).

Apologies: Ron Vankatwic (LPSC); Casper Dieben (Whitehaven)

2. Minutes of Previous Meeting

Minutes of the previous meeting 4th September 2008 accepted as true representation of business conducted on day. Motion moved.

Moved Lynden Cini, Seconded Jill Coleman.

3. Declaration of Pecuniary or other interests

None to report

4. Matters Arising

Merv Prendergast advised CCC meeting letter to Pacific National re dust was sent to Council meeting last month. Advised that Whitehaven not responsible but they were being blamed. Coal dust coming from other trains. A trial was being conducted in QLD using a coagulant to be sprayed over coal once on train. Further discussions refer to General Business.

5. New Matters for Discussion Under General Business

No additional matters to add.

6. Remuneration to CCC Members

Brian Cullen response letter to Ron Short saying Whitehaven will not be implementing reimbursement to members.

Merv Prendergast - Suggested that the CCC advertise in the Financial Year a Community program for recommendation for community initiative for funding.

Des George – Be careful not to create the perception the community to get funding.

Jill Coleman – first port of call to Whitehaven.

Chris Holley – Ask around town, particularly environmental projects that may benefit from funding.

Merv Prendergast - Ask Whitehaven to ask the community where funds may be needed.

Ron Short – If the advertising line is pursued it could get out of control. The purpose is to raise an environment to create a committee for recognition. This could become a nightmare for the committee and Whitehaven. The response from Whitehaven was disappointing and he doesn't agree with "prostituting" the committee for money. Proceed to allocate an amount of money to this committee for us to allocate to specific needs. Suggest the CCC to delegate money.

Des George – Doesn't think Whitehaven has 'shut the gate' if CCC went to the company for Financial Support for the community.

Merv Prendergast – the reason to advertise was because of local knowledge and not knowing the needy. This was a way of finding out who was out there, but is happy to try suggestions.

Ron Short - "we (the committee members) don't want anything out of it"

Chris Holley – needs a personal approach to find an organization with a worthy project. We have to be responsible about it.

Motion moved to receive letter from Brian Cullen and CCC to go back to Whitehaven for some further response to opportunities being missed. List as an agenda item and members to come up with programs that may need some support.

Moved Ron Short, seconded Chris Holley

7. Discussion Quarterly Monitoring Results October, November, December 2008

Lynden Cini apologises for the size of the report and addresses appendix 1 & 2 – Noise Data in raw format.

Jill Coleman – asks how the information is collected.

Lynden Cini – Provided a detail response as to how the data is collected and recorded

Lynden Cini – This period's key component is the Weather Station. There is no data for December, therefore non-conformance against the licencing criteria, no data captured due to weather station fault. This was rectified by the installation of a new weather station in January 09 and included a major hardware and software upgrade.

Ron Short – Who monitors the effects on the Weather Station?

Lynden Cini – I Do. The weather station has been a problem for some time. Hardware is subjected to extreme conditions and was deteriorating. The cost to replace was approx. \$12,000.00. We tried to fix on site but decided to replace. New station should be good for 5+ years.

Ron Short – From the data that is produced, does a consultant do an evaluation each month? Where does the Consultant operate?

Lynden Cini – Yes. Consultant receives raw data from our weather station and compiles a report on the months weather conditions which includes graphed data. They are based in Singleton, however we will be changing to a new company which will be based in Gunnedah soon.

Jill Coleman – Is the data better with the new weather station?

Lynden Cini – The data is the same but with the new system in place we shouldn't have any further problems with the weather station not collecting the data. Eventually we will also be able to view real time weather information remotely (Off site).

There were two positive dust increases, refer page 4, not recognised as non compliance's due to the monitors location on the mine lease – South Boundary

Jill Coleman - Is wind a factor?

Lynden Cini – Extreme wind from the North of the site can be a contributor to this exceedance.

Merv Prenderast - Why is the South Boundary a Problem? Maybe turbulent effect! Would like to see why! Maybe test by bringing dust monitor 200mtrs this side to test turbulent affect.

Ron Short asks if there has been an exceedance in the past.

Jill Coleman – Can it be moved over on the Boundary

Lynden Cini – looking over the history in the last 12-24mths the results have been up and down. The site is located on the boundary to give an indication as to any dust coming off the. The monitor may also be influenced by external dust sources as well, such as dust generated off Wadwells lane. It can't be moved without approval from Planning and DECC.

Chris Holley – Seems like it may be an area of turbulence.

Ron Short – Ask Whitehaven to consider a way to address marginal exceedance – Leave open ended for monitoring by Whitehaven.

Lynden Cini – Another major point in the quarter was three wet weather discharges in November and December. Heavy rain attributed to the discharge. Discharged waters were sampled and resulted in an increase in total suspended solids. Reports to DECC. Correspondence between DECC and L.Cini state at this stage no action will be taken due to foreshadowed change in licencing requirements. (See details in quarterly report page 8/9).

Ron Short – was there any blast concerns in the last quarter?

Lynden Cini – None to report. There were 6 complaints from Noel Taylor, the last being 17/12/08.

Chris Holley – asks if the mine operates to 3am.

Des George – it operates to 4am.

Motion moved to accept quarterly report.

Moved Merv Prendergast, seconded Jill Coleman.

8. General Business

- A. History of Underground Workings update – Des George says there are bits and pieces out there that maybe there maybe somebody in the community that could help. Ron Short suggests that maybe we think about who may be interested or capable of assisting with the history. Someone may have documents that could help. Lynden Cini suggested that maybe the library will have something. Des George says the Historical Society should be able to help also. There were suggestions that a notice be placed on the library notice board that we are looking for someone to put it all together. Any interested party could forward their interest to Lynden Cini. Merv Prendergast agreed that Lynden Cini be the point of contact.

- B. Letter to Pacific National – Committee to forward letter to Pacific National raising issue of dust from trains. Letter was dealt with by Paul Scarf. Ron Short had a number of calls from Paul Scarf and was to get back to Ron Short before this meeting. Paul Scarf sounded genuine and said he would pursue it. Ron had some good discussions with Paul Scarf. Although the solution had been resolved down stream it was a challenge that Pacific National had across the state. Ron Short has a mobile number to chase it up. Merv Prendergast happy to wait for the next step for Pacific national to fix. Chris Holley asked if the coal was washed and stated he had surveyed a number of local train drivers. The train traveled at 80km through Quirindi and the dust came from the coal loaded at Werris Creek and it was very bad through Quirindi. Ron Short says there was a verbal complaint that the dust was from WCC. Dates & times need to be recorded for evidence that it is WCC coal. Chris Holley states that before the speed limit was only 50km now it is 80km ph. Maybe the speed needs to be reduced through the town. Merv Prendergast says it is a council issue as well as a safety issue. Chris Holley suggests that there be an onsite meeting concerning the dust with representatives from Pacific National, ARTC and Whitehaven. Ron Short suggested a letter be sent to Council regarding CCC concerns.

- C. Merv Prendergast requests a copy of the Tenure for the CCC Chair person position. Ron Short will try to get something together.

Next Meeting

TBA

Copy to:

Ron Short	Chairman
Chris Holley	Local Community Representative
Jill Coleman	Local Community Representative
Noel Taylor	Local Community Representative
Lindsay Bridge	Local Community Representative

Anna Bradley	DoP
Michael Lloyd	DPI
Merv Pendergast	LPSC

Des George	Whitehaven Coal
Mick Post	Whitehaven Coal
Casper Dieben	Whitehaven Coal
Danny Young	Whitehaven Coal
Lynden Cini	Whitehaven Coal
Brian Cullen	Whitehaven Coal



WERRIS CREEK COAL PTY LTD

ENVIRONMENTAL MONITORING

QUARTERLY REPORT

October, November, December 2008

This report covering the period 1st October 2008 to 31st December 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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Appendix 3.....	Ground Water Monitoring Results
Appendix 4.....	Surface Water Monitoring Results
Appendix 5.....	Wet Weather Discharge Monitoring Results

1.0 WEATHER STATION

WEATHER

Werris Creek Coals (WCC) on site weather station experienced significant data loss over the period and this was directly due to faulty hardware. WCC have since rectified this fault by upgrading the weather station with new hardware and software in early January 2009.

Weather data was available for 87% of October.

Weather data was available for 98% of November.

Weather data was unavailable for the month of December due to the above mentioned fault. This is recorded as a non conformance with licence requirements.

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

Please see PM10 High Volume Air Sampler monitoring data under Appendix 1

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

Limits were removed from Environment Protection Licence 12290 pertaining to mean annual dust deposition, however, 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 1

Sample Num	Sample Location	Sample Date	Sampler	Ash g/m ² /m th	NO SAMPLE: (d)	Time: (d)	Total Insoluble Matter g/m ² /m th	Volume Collected m Ls
31771.01	WC1 - Escott	04-Nov-08	Client	0.1		1555	0.2	1900
31771.02	WC2 - Cintra	04-Nov-08	Client	0.7		1545	1.3	2275
31771.03	WC3 - The Colliery	04-Nov-08	Client	1.8		1530	9.6	2490
31771.04	WC4 - Hillview	04-Nov-08	Client		No sample	Not recorded		
31771.05	WC5 - Railway View	04-Nov-08	Client	0.7		1515	1.1	2405
31771.06	WC6 - Sth Boundary	04-Nov-08	Client	5.5		1445	7.8	2235
31771.07	WC7 - Patterson	04-Nov-08	Client	0.9		Not recorded	1.3	1880
31771.08	WC8 - Quirindi Rd	04-Nov-08	Client	1.1		1500	1.6	1845
32019.01	WC1 - Escott	28-Nov-08	Client	0.6		1440	0.8	2405
32019.02	WC2 - Cintra	28-Nov-08	Client	0.5		1430	1.0	2455
32019.03	WC3 - The Colliery	28-Nov-08	Client	1.9		1400	6.3	2360
32019.04	WC4 - Hillview	28-Nov-08	Client	0.7		1420	1.0	2795
32019.05	WC5 - Railway View	28-Nov-08	Client	0.7		1355	1.0	2205
32019.06	WC6 - Sth Boundary	28-Nov-08	Client	4.5		1430	6.6	2025
32019.07	WC7 - Patterson	28-Nov-08	Client	0.7		1410	1.0	2410
32019.08	WC8 - Quirindi Rd	28-Nov-08	Client	1.6		1350	2.1	1620
32514.01	WC1 - Escott	05-Jan-09	Client	0.4		1230	0.5	1790
32514.02	WC2 - Cintra	05-Jan-09	Client	1.0		1315	2.4	1765
32514.03	WC3 - The Colliery	05-Jan-09	Client	1.0		1200	1.7	1965
32514.04	WC4 - Hillview	05-Jan-09	Client	0.7		1305	0.9	1875
32514.05	WC5 - Railway View	05-Jan-09	Client	0.7		1135	1.0	2035
32514.06	WC6 - Sth Boundary	05-Jan-09	Client	3.1		1100	5.0	2055
32514.07	WC7 - Patterson	05-Jan-09	Client	0.6		1250	0.9	1475
32514.08	WC8 - Quirindi Rd	05-Jan-09	Client	1.6		1120	2.0	2290

Elevated results recorded at the South Boundary monitor from samples taken on the 4th and 28th of November.

2.3 AIR QUALITY COMPLAINTS

No complaints received regarding excessive dust for the period.

3.0 NOISE

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

R2: **Zeolite**, R3: **Cinta**, R4: **Old Colliery** (mine owned residence), R5: **Mountain View**, R6: **Hillview** (mine owned residence) R7: **Railway View** (mine owned residence), 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

Please see noise monitoring data under Appendix 2

3.1.2 Discussion - Compliance / Non Compliance

There were no noise exceedances recorded for the period.

Any elevated levels represented in the results are not recorded exceedances and this is directly due to one or a combination of the factors listed below.

- 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

No actions necessary regarding routine noise monitoring.

There were ongoing complaints received from Mr Noel Taylor of the Park Hill property located to the south of the mine throughout November and December. Additional monitoring was undertaken through this period to determine the levels of noise being received at the Park Hill residence and all monitoring returned values under the licence limits of 35dB(A),Leq. Ongoing discussions between WCC and the Taylors peaked towards the end of December with a meeting between Whitehaven senior staff and the Taylors where by a resolution was reached. Since this time no additional complaints have been received.

3.2 NOISE COMPLAINTS

Six complaints were received regarding noise.

4.0 BLAST

During this reporting period a total of 19 blasts numbered ORICA 127 to ORICA 146 were fired.

4.1 BLAST MONITORING

4.1.1 Monitoring Data Results

TABLE 2

Shot number	Shot ID	Date fired	Time Fired	Environmental Monitor Results							
				Glenala		Railway View		Old Colliery		Escott Road	
				Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
127	S8_678_355B	3/10/2008	1.02	-	-	0.66	105	-	-		
128	S9_12_385	9/10/2008	1.18	-	-	-	-	1.55	113	0.36	106
129	S7_78_Frider	16/10/2008	1.08	-	-	1.1	111	0.35	106	0.08	101
130	S7_56_Frider	23/10/2008	1pm	-	-	0.33	102	0.38	101	-	
131	S9_56_412	22/10/2008	11am	-	-	0.83	114	0.33	104		
132	S8_910_C seam	29/10/2008	1.19	-	-	2.17	113	2.31	112	-	
133	S9_34_385	31/10/2008	1.07	-	-	1.57	113	1.15	113	-	
134	S7_4_frider	5/11/2008	1.02	-	-	0.77	110	0.97	106		
135	S7_3_320	6/12/2008	1.04	-		1.1	111	1.62	107	1.7	108

136	S8_1011_355	12/11/2008	1.09	-	-	1.57	114	0.6	110	-	
137	S9_56_400	14/11/2008	1.07	-	-	3.41	110	1.65	87	-	
138	s8_3_Deseam	18/11/2008	1.22	-	-	0.95	114	1.14	112	-	
139	F7_910_Fseam	25/11/2008	1.06	-	-	1.12	110	0.4	102	-	-
140	S7_8_320	26/11/2008	1.02	-	-	1.42	106	1.27	111	-	-
141	S9_12_370	4/12/2008	1.22	-	-	1.59	115	0.7	110	-	-
142	S9_34_370	10/12/2008	1.08	1.07	113.5	1.27	115	0.4	105	-	-
143	S9_7_400	12/12/2008	10.37	-	-	0.4	113	1.17	114	-	-
144	S7_2_326	16/12/2008	1.11	-	-	0.85	114	0.28	103	-	-
145	S9_810_400	19/12/2008	2.10	-	-	1.07	114	1.06	112	-	-

4.1.2 Discussion - Compliance / Non Compliance

All blasts complied with licence limits. Columns with no value represent monitors which did not trigger a reading at that site for the given blast.

4.1.3 Action Taken

No Actions necessary.

4.2 BLAST COMPLAINTS

No complaints received regarding blasting.

5.0 WATER

Surface and groundwater monitoring was undertaken in October 2008 by Ecowise Environmental.

4.1 GROUND WATER

4.1.1 Monitoring Data Results

See Appendix 3 - 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 4 – Surface water monitoring results.

See Appendix 5 – Wet weather discharge monitoring results.

4.2.2 Discussion - Compliance / Non Compliance

Ground water and routine surface water monitoring undertaken by Ecowise Environmental returned typical water quality results for the period.

Three wet weather discharges were recorded for the period which were a consequence of the heavy rainfall experienced during November and early December in 2008. The discharges occurred on the 21st and 28th of November and a third discharge on the 13th December. Surface waters discharged from Sediment Basins SB2 and SB9 located on the southern and mid western sides of the mine lease respectively. Licence limits at Werris Creek Coal state that Total Suspended Solids cannot exceed 50ppm. There were three exceedances of this criterion.

Discharge 21st November

- Small discharge from SB9 only.
- Discharge contained to project related property Eurunderee.
- Analysis of discharged water within licence limits.

Discharge 28th November

- Heavy rain experienced (189.4mm of rain recorded on site for the month) discharge from SB9 and SB2.
- Exceedance recorded from sample taken at SB9, Total Suspended Solids of 69ppm.
- Sample taken from SB2 within licence limits.

Discharge 13th December

- Heavy rainfall experienced, (58.8mm recorded at the Quirindi Bureau of Meteorology Station on the 13th December 08) discharge from SB9 and SB2.
- Exceedance recorded from sample taken at SB9, Total Suspended Solids of 68ppm.
- Exceedance recorded from sample taken at SB2, Total Suspended Solids of 154ppm.

Although three exceedances of the licence limits occurred during the above noted discharges, the DECC have stated through correspondence with the site Environmental Officer that, at this stage no action will be taken.

This is due to a new condition to be issued to Werris Creek Coals Environmental licence which disengages the Total Suspended Solids limit for EPA points 10, 12 & 14 (SB2, SB9 and SB10) where more than 39.2mm is received over any consecutive 5 day period immediately prior to a discharge occurring.

A controlled discharge was also undertaken on the 10th of November from SB2. Retained waters captured in SB2 were analyzed and were within licence limits for all parameters. The DECC and neighboring properties to the south of the mine were notified and stored water was slowly discharged off site using a volume pump until approximately 70% of SB2 had been removed. Neighboring properties to the south were pleased to receive the additional water and it was used for stock watering and irrigation.

6.0 COMPLAINTS SUMMARY

6 Complaints were received during this period.

TABLE 3

Telephone Call to office received by Lisa Single	Mr. Noel Taylor "Park Hill"	No 36 05/10/2008 10.00am	Noise complaint. Dump trucks revving engines and changing gears on Tuesday night.	L. Cini called Taylors to discuss complaint, no answer left two messages. Mr Taylor returned phone call on Thursday 6th. LC explained environmental conditions on Tuesday night may have intensified noise at the Taylors property. Advice sent to MME explaining nature of complaint and to ensure night shift crews are advised of potential effects excessive revving of engines has on neighbouring properties. MME asked to toolbox issue with crews.	Lynden Cini advised Les Latchem MME – toolbox meeting undertaken.
Message left on complaints line	Mr. Noel Taylor "Park Hill"	No 37 27/11/2008 10.00am	Noise Compliant. Noise between 7.30pm to aprox 3.00am over the last night had disturbed the Taylor's.	P. Easey to speak with Mr. Taylor today and offer additional monitoring on his property.	
Message left on complaints line	Mr. Noel Taylor "Park Hill"	No 38 02/12/2008 9.30am	Noise Compliant. Noise between 7.30pm to aprox 3.00am over the last night had disturbed the Taylor's. Dump trucks revving engines and changing gears.	L.Cini spoke to Mr Taylor on the phone 2 nd December to determine details of complaint. L.Cini and P. Easey visited Mr Taylor at his home that afternoon. Additional monitoring on the Taylors property was again offered, Mr Taylor was concerned that when monitoring occurs there is no noise. L.Cini explained that WCC has no control over when monitoring occurs so that data taken cannot be influenced by WCC. WCC agreed to look into hiring an unattended noise monitor to set up at Park Hill for an extended period however, WCC were dubious as to the accuracy of such an endeavour.	L. Cini spoke to WCC acoustic consultant and determined that an unattended noise logger will not give accurate results unless it is operated by a professional. It was also noted that data obtained from the "Mountain View" residence (located to the south and closer to the mine than "Park Hill") has only exceeded once in the 3+ year history of monitoring at WCC. The exceedance was of 1dB. Further negotiations will continue between WCC and the Taylors until a resolution has been reached.
Message left on complaints line	Mr. Noel Taylor "Park Hill"	No 39 04/12/2008 10.00am	Noise Compliant. Noise between 9.00pm to aprox 3.00am over the last night had disturbed the Taylor's.	L.Cini phoned the Taylor residence to discuss. Mr Taylor requested he would like to meet with the GM Mr Casper Deiben. L.Cini has arranged a meeting on the 15 th December between the Taylors, Casper Dieben, Danny Young and Peter Easy. L.Cini discussed complaint in detail with Mick Post new projects manager and was shown where all work of the night in question was undertaken. During the shift on the night of the 4 th all dumping was within the confines of the pit.	

Message left on complaints line	Mr. Noel Taylor "Park Hill"	No 40 11/12/2008 3.00am	Noise Compliant. Noise between 2.00am to aprox 3.00am over the last night had disturbed the Taylor's.	No action taken pending outcome of the meeting set for Monday the 15th between the Taylors and senior Whitehaven staff. Additional monitoring to be undertaken today by acoustic consultant on Park Hill.	Noise monitoring at Park Hill was again within licence limits.
Telephone Message left on complaints line	Mr. Noel Taylor "Park Hill"	No 41 17/12/08 7.00am	Noise Compliant. Noise at 1.00am over the last night had disturbed the Taylor's.	Following a meeting held at the Taylors residence on Monday the 15th December between the Taylors and senior Whitehaven staff, additional noise monitoring had been undertaken. Mr Taylor seemed pleased to continue monitoring on his property and had also said he would continue to advise WCC every time he felt noise was excessive. Results of noise monitoring on Monday the 15 th are pending.	

7.0 GENERAL

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

Werris Creek Coal Mine Community Consultative Committee

Twelfth Meeting of the Committee

Whitehaven Training Room, Werris Creek Coal Mine

10.00am 29 July 2009

MINUTES

1. Record of Attendance:

Ron Short (Chairman); Noel Taylor (Community Representative); Chris Holley (Community Representative); Des George (Whitehaven); Mick Post (Project Manager WCC); Lynden Cini (Environmental Officer WCC); Lisa Single (WCC).

Apologies: Casper Dieben (Whitehaven)

Ron Short addressed the committee regarding the use of a tape recorder to assist the Minutes Secretary to record the Minutes. It was agreed that the tape would be only used for the Minutes Secretary only. All in attendance agreed with the taping of the minutes.

2. Minutes of Previous Meeting

Minutes of the previous meeting 12th March 2009 accepted as true representation of business conducted on day. Motion moved.

Moved Chris Holley, Seconded Des George. Motion carried

3. Declaration of Pecuniary or other interests

None to report

4. Matters Arising

No Matters arising

5. New Matters for Discussion Under General Business

Noel Taylor – Letter from Tony Jones re: Potential to Extend Mining Operations.

6. AEMR 2008/2009

Ron Short received a copy of the AEMR that was recently reviewed. Ron notified other committee members that he was happy to pass a copy onto members of the committee to have a glance through. RS clarified to the Committee that the CCC are not party to the review process. It is done by the Company, Government Department etc. The CCC role is simply as an observer and the Chairman receives a copy of the report to have a look at and if there are any issues of significance then the CCC can talk about.

RS has an issue with some changes in the potential height of the waste dump. The original height is 410m AHD.

LC explains the AEMR and the information that was put into this section of the report is a small summarisation of what has been put out to the community through the SOE and the modification to our consent limits. One of the key aspects was the height of the dump from 410m AHD to 445m AHD. Not something new in the AEMR. After the submission there was no response from the wider community. There were specifically none on the lifting of the height, there were concerns of other impacts that were addressed.

RS asks Lynden to give CCC a rundown on what went on:

LC this AEMR reflects everything that happened on site from 01/04/08 to 31/03/09. This particular document went out to all the Government Departments and is written for the DPI minerals section where it is scrutinized by the Environmental Officer who looks after the WCC project, it also went out to the Dept of Environment and Climate Change, Dept of Water and Energy, Dept of Agriculture, Chairman of the CCC and the Liverpool Plains Shire Council.

DPI organise an onsite meeting and a tour of the site. A breakdown is done of the document and any information that they may find that needs extra discussion on a face to face level and having a look at things on site. This AEMR was the best result ever received. No major concerns highlighted which was a first for the WCC site. In Previous years there were concerns with hydrocarbon management on site e.g. bunding around workshops, since WHC took over the site more control has been in place. Council raised an interested in having a member of the community involved. LC suggested a member of the CCC.

Written response hasn't been received to say the report has been accepted, but the review process on site was a positive result.

CH asks if the report that was put together was a comprehensive listing of the decisions and issues that were raised.

LC - the AEMR document is a report of a comprehensive listing of what Environmental Management has occurred on site from 01/04/08 to 31/03/09. It is literally the most comprehensive document and process that a site can do from an Environmental aspect.

RS asks if anyone would like to raise any issues to LC or members of the company.

CCC dealt in broad terms with the AEMR and received an outline of the process from LC and the AEMR will be circulated amongst the CCC Members.

7. Discussion Quarterly Monitoring Results January, February, March 2008

No major concerns to highlight in the period.

LC – Page 3, the weather station lost a total of one month, 15 days of December and 15 days of January. There was a major breakdown with the weather station and during this time it was being remade and put back on site.

There was an elevated dust reading on the “Eurunderee” property, elevated by 2. This property is a project related property therefore it is not recognized as an exceedance by the departments. Every other aspect of the environmental monitoring of that 3 month period has been under license limits and working to our consent and license requirements.

DG mentioned that the blast monitoring at the property “Railway view”, which is a project related property, over 115db mark but as it is a project related property it is not an exceedance.

RS asks “by buying the adjoining properties does that give WCC more flexibility where the shot firing is concerned.”

DG – yes it does as it increases the buffer zone around the mine site but we still design the blast so we don't exceed outside the buffer zone.

RS – John Colville has made a number of comments to Ron Short about the lights at night shining in to his bedroom. No formal complaint has been made but it is felt that it is better if WCC makes contact with Mr. Colville. LC to contact him in the future.

RS – matter on quarterly report resolved.

8. General Business

- A.** History of Underground Workings update - It is felt that given the expansion of the mine there is a concern that the documentation is more important as there will come a day when the underground mine will no longer be there.
- DG – Contact has been made with a former employee Mick Warren, he is still a resident of Werris Creek. He visited the site. Also have contact details for former Mine Manager Doc Thomas who lives in Gosford. Period of work was from 1924 – 1963 and we know the seam that was worked and the seam height. The greatest depth was 120mtrs. We have a little bit of information but there is not much more out there that can be found at this stage.
- NT – was there any information given about the underground water supply?
- DG – Not at this stage but will ask Doc Thomas. Mick Warren didn't spend a lot of time underground; most of his time was on the surface. The concerns we have is the water underground, the 330ML. Some of the research is showing that is probably not that much, more likely about 200ML. Original workings are now dry. Everything is being documented.
- RS - suggest before work begins on the underground workings we set and absolute resolve of what we as a committee can do as well as WCC.
- DG – As part of the approvals process everything must be documented and given to the DPI. Mining expected to start November – December 09 subject to approval. Any history of the underground workings will be given to the Historical Society or the Rail Museum.
- B.** Letter to Pacific National – Committee to forward letter to Pacific National raising issue of dust from trains. No response to date.
- RS – spoke with Col Phillips and there is a 90 page report prepared by Connell hatch dated the 31st March 08 and it is called “The Final Report on the Environmental Evaluation of Fugitive Coal Dust Emissions from Coal Trains Goonyella, Blackwater and Moura Coal Rail Systems Queensland Rail Authority. The report came about as a result of work done by the QLD Environment Agency. The main issues identified in the report are train speed, the ambient wind pressure, particle size and vibration of lands. The Government Authority issues a license to the ARTC under the Environment Protection license. RS raised the question of who is the authority and who might monitor etc. What the cumulative impact of trains and dust emissions. The advice given was there is nobody monitoring cumulative impact. Paul Scarff, Regional Manager for Pacific National, said the Minerals Councils is involved somehow. Ron Van Katwyk says Council has pursued the matter and is getting some communication going on the matter.
- LC – has email correspondence between Whitehaven senior Management and NSW Minerals Council. It dates back to a letter Ron Van Katwyk sent to Minerals Council and responses from the Minerals Council. Correspondence from the Director of Infrastructure Government Relations from NSW Minerals Council. The issue has been raised with George Souris MP and relevant ministerial advisors. George Souris has a concern that it is another ploy by locals opposed to the industry.
- NT – Ratepayers should go to the Local Council with their complaints
- RS – has asked a lot of relevant questions but no cooperation. Maybe get a co operative to sort it out.
- The CCC has taken the problem to the Council and the Company has taken it to the Minerals Council. Not much more to do but keep a bit of pressure on the relevant Councils. RS to express a view to the LPSC on behalf of the CCC.
- C.** Discussion regarding Community Programs which may need Funding Support –
- CH suggests Rail Museum is going to do a major upgrade commencing in February. They would like to do a gallery on the coal industry to show the story of coal.
- MP – put in writing to Tony Jones in the Gunnedah Office.

- D.** CH – mentions the ARTC 42 page report on Coal Mines and the work that is going to happen in the next 5 years and the western line is going to be reopened. WCC is going to be part of a loop process. The report was issued last week. There will be all doubled lined to Gunnedah, the Western line will come past the line at WCC and will join the main Northern line. Won't go past the station. Chris will email to Mick Post.
- E.** CH raises the concerns that some of the locals had regarding the dumping of Drillers Mud at the local tip. There is a public meeting being held in Werris Creek on the 29 July. The mud is from the Watermark coal company. He had received a call from a local who was concerned about what some of the properties of the Drillers Mud may contain. CH wishes to note that he was advised via the CCC meeting the processes that are used and he was quite happy with the response.
- F.** NT – Received a letter from Tony Jones regarding a summary of information pertaining to the recent SoE currently awaiting approval, specifically questioning the drop in ground water which has the potential to affect him directly.
 LC – as part of the 3 year extension, the widening of the pit and working through the old underground mine is to dewater the underground workings and mine through it. The process involved a comprehensive study on ground water in the underground workings and a comprehensive study on monitoring of the ground water in the surrounding aquifers. The results of that study concluded that at a maximum there could be a 0.1 of a meter (10cm) drop in the ground water to the south of the mine moving towards Quipolly. Worst case Scenario. This was in the submission and was duly noted by various community members in that area with their responses put to the departments and then forwarded on to WCC to reply and give an acceptable answer. LC has a copy of the response that was put to the Departments and to the landholders that made the concern and is happy to distribute to the CCC.
 NT reasonably happy, other community members complaining have gone to the mine, one person still complaining. LC suggests any other people within the community who still may have concerns should call him direct.
 Tony Jones prepared to come and talk to community members.
 RS suggest if that there are any major concerns that there be a meeting with Tony Jones.
 LC put back to NT to approach individuals and ask if they would like a meeting and notify LC.
 Meeting Closed 11:25am

Next Meeting

TBA

Copy to:

Ron Short	Chairman
Chris Holley	Local Community Representative
Jill Coleman	Local Community Representative
Noel Taylor	Local Community Representative
Lindsay Bridge	Local Community Representative

Anna Bradley	DoP
Michael Lloyd	DII
Merv Pendergast	LPSC

Des George	Whitehaven Coal
Mick Post	Whitehaven Coal
Casper Dieben	Whitehaven Coal
Danny Young	Whitehaven Coal
Lynden Cini	Whitehaven Coal
Brian Cullen	Whitehaven Coal



WERRIS CREEK COAL PTY LTD

ENVIRONMENTAL MONITORING

QUARTERLY REPORT

January, February, March 2009

This report covering the period 1st January 2009 to 31st March 2009 is the quarterly Environmental Monitoring Report written for the Community Consultative Committee.

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

Werris Creek Coals (WCC) on site weather station experienced significant data loss over the month of January and this was directly due to faulty hardware. WCC have since rectified this fault by upgrading the weather station with new hardware and software in mid January 2009 and have since had no data loss from the new station.

Weather data was available for 53% of January.

Weather data was available for 100% of February.

Weather data was available for 100% of March.

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”

WCHV2 – Patterson’s

WCHV3 – “Railway View”

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 meter of air sampled or ug/m³.

2.1.1 Monitoring Data Results

Please see PM10 High Volume Air Sampler monitoring data under Appendix 1

2.1.2 Discussion - Compliance / Non Compliance

On the 30th January 2009, the PM10 monitor on the Eurunderee property reported a reading of 52ug/m³. This was not recorded as an exceedance of the 24hour impact criteria of 50ug/m³ as it relates to the Development Consent due to the property being recognised as a project related property.

Individual PM10 24 hour average results, at all other 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

Limits were removed from Environment Protection Licence 12290 pertaining to mean annual dust deposition, however, 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 1

Sample Num	Sample Location	Sample Date	Sampler	Ash g/m ² /mth	NO SAMPLE: (d)	Time: (d)	Total Insoluble Matter g/m ² /mth	Volume Collected mLs
32514.01	WC1 - Escott	05-Jan-09	Client	0.4		1230	0.5	1790
32514.02	WC2 - Cintra	05-Jan-09	Client	1.0		1315	2.4	1765
32514.03	WC3 - The Colliery	05-Jan-09	Client	1.0		1200	1.7	1965
32514.04	WC4 - Hillview	05-Jan-09	Client	0.7		1305	0.9	1875
32514.05	WC5 - Railway View	05-Jan-09	Client	0.7		1135	1.0	2035
32514.06	WC6 - Sth Boundary	05-Jan-09	Client	3.1		1100	5.0	2055
32514.07	WC7 - Patterson	05-Jan-09	Client	0.6		1250	0.9	1475
32514.08	WC8 - Quirindi Rd	05-Jan-09	Client	1.6		1120	2.0	2290
32242.01	WC1 - Escott	02-Feb-09	Client	0.4		1216	0.7	245
32242.02	WC2 - Cintra	02-Feb-09	Client	0.5		1205	1.2	315
32242.03	WC3 - The Colliery	02-Feb-09	Client	1.5		1150	3.1	335
32242.04	WC4 - Hillview	02-Feb-09	Client	0.4		1233	0.9	240
32242.05	WC5 - Railway View	02-Feb-09	Client	0.3		1130	0.7	255
32242.06	WC6 - Sth Boundary	02-Feb-09	Client	1.2		1047	2.5	250
32242.07	WC7 - Patterson	02-Feb-09	Client	0.4		1300	1.0	270
32242.08	WC8 - Quirindi Rd	02-Feb-09	Client	0.6		1106	1.1	80
32859.01	WC1 - Escott	03-Mar-09	Client	0.3		Not recorded	0.3	2350
32859.02	WC2 - Cintra	03-Mar-09	Client	0.5		Not recorded	0.7	2460
32859.03	WC3 - The Colliery	03-Mar-09	Client	1.1		1502	2.7	2600
32859.04	WC4 - Hillview	03-Mar-09	Client	0.3		1515	0.6	2330
32859.05	WC5 - Railway View	03-Mar-09	Client	0.3		1450	0.4	2300
32859.06	WC6 - Sth Boundary	03-Mar-09	Client	2.3		1440	8.7	2240
32859.07	WC7 - Patterson	03-Mar-09	Client	0.7		1530	1.1	2310
32859.08	WC8 - Quirindi Rd	03-Mar-09	Client	2.3		1515	3.4	2260

2.3 AIR QUALITY COMPLAINTS

No complaints received regarding excessive dust for the period.

3.0 NOISE

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

R2: **Zeolite**, R3: **Cinta**, R4: **Old Colliery** (mine owned residence), R5: **Mountain View**, R6: **Hillview** (mine owned residence) R7: **Railway View** (mine owned residence), 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 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

Please see noise monitoring data under Appendix 2

3.1.2 Discussion - Compliance / Non Compliance

There were no noise exceedances recorded for the period.

Any elevated levels represented in the results are not recorded exceedances and this is directly due to one or a combination of the factors listed below.

- 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

No actions necessary regarding routine noise monitoring.

3.2 NOISE COMPLAINTS

No Complaints received for the period.

4.0 BLAST

During this reporting period a total of 17 blasts numbered ORICA 146 to ORICA 162 were fired.

4.1 BLAST MONITORING

4.1.1 Monitoring Data Results

TABLE 2

Shot number	Date fired	Time Fired	Environmental Monitor Results			
			Glenala	Railway View	Old Colliery	Escott Road

			Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
146	9/01/2009	4.19	-	-	3.01	113.9	0.43	102.7	-	-
147	14/01/2009	1.40	-	-	1.07	104.1	1.38	102.2	-	-
148	22/01/2009	4.19	-	-	0.95	112.8	0.73	103.7	0.33	97.6
149	22/01/2009	4.19	-	-	0.95	112.8	0.73	103.7	0.33	97.6
150	27/01/2009	8.38	-	-	1.02	109.8	0.95	104.1	-	-
151	29/01/2009	2.09	-	-	0.65	110.7	-	-	-	-
152	09/02/2009	9.21	-	-	3.14	111.7	1.86	107.5	0.48	98.5
153	11/02/2009	2.09	-	-	0.1	110.3	0.08	111.4	-	-
154	18/02/2009	13.30	-	-	1.74	114.5	1.11	110.2	-	-
155	26/02/2009	13.12	-	-	2.56	114.6	0.68	108.7	0.36	106.6
156	5/03/2009	15.24	-	-	2.41	114.8	0.53	107.5	-	-
157	12/03/2009	13.48	-	-	1.87	113.1	0.88	107.8	-	-
158	11/03/2009	13.22	-	-	3.41	118.4	0.75	109.8	0.33	105.9
159	19/03/2009	14.08	-	-	0.7	105.8	0.65	105.2	0.41	102.2

160	24/03/2009	13.10	-	-	2.56	115.3	1.09	112.9	-	-
161	25/03/2009	13.09	-	-	0.77	113.1	0.25	92.5	-	-
162	27/03/2009	13.07	-	-	1.88	114.8	0.48	113.9	-	-

4.1.2 Discussion - Compliance / Non Compliance

All blasts complied with licence limits. Columns with no value represent monitors which did not trigger a reading at that site for the given blast.

4.1.3 Action Taken

No Actions necessary.

4.2 BLAST COMPLAINTS

No complaints received regarding blasting.

5.0 WATER

Surface and groundwater monitoring was undertaken in January by Ecowise Environmental.

4.1 GROUND WATER

4.1.1 Monitoring Data Results

See Appendix 3 - 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 3 – Surface water monitoring results.

4.2.2 Discussion - Compliance / Non Compliance

Ground water and routine surface water monitoring undertaken by Ecowise Environmental returned typical water quality results for the period.

6.0 COMPLAINTS SUMMARY

There were no complaints received during the three month reporting period.

7.0 GENERAL

In general WCC environmental performance over this quarter was very good, with no major concerns noted during monitoring and reporting.

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

Regards

Lynden Cini
Environmental Officer
Whitehaven Coal

Appendices

Appendix 1 – PM10 Dust monitoring Data

Appendix 2 – Noise monitoring Results

January

Table 1 WCC Noise Monitoring Results – 7 January 2009 (day)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	4:07 pm	44	n/a	<0.5 m/s, S	Birds (41), cows (40), WCC (34)
Cintra	4:28 pm	45	n/a	<0.5 m/s, S	Birds (41), Traffic (40), WCC (39)
Old Colliery	3:27 pm	38	n/a	<0.5 m/s, S	Birds (35), traffic (33), WCC (33)
Mountain View	5:54pm	47	n/a	<0.5 m/s, S	Birds (44), traffic (41), rooster (40), WCC barely audible
Hillview	4:49 pm	52	n/a	<0.5 m/s, S	Birds/insects (49), traffic (49), WCC (39)
Railway View	5:10 pm	45	n/a	<0.5 m/s, S	WCC(42), traffic (41), birds (36)
Hazeldene	5:33 pm	35	n/a	<0.5 m/s, S	Birds (33), tractor (29), horses (28), WCC inaudible
Escott	3:50 pm	31	n/a	<0.5 m/s, S	Birds/insects (31), WCC inaudible

Table 2 WCC Noise Monitoring Results – 7 January 2009 (evening)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	7:47 pm	35		1 m/s NW	Insects (33), cows (31), wind (28), WCC inaudible
Cintra	8:05 pm	45		0.8 m/s NW	Frogs & insects (44), dogs (32), WCC barely audible
Old Colliery	7:08 pm	37		0.5 m/s NW	Birds & insects (35), traffic (31), WCC (30)
Mountain View	9:25 pm	37		1.2 m/s NW	Birds/insects (34), Domestic noise (31), WCC (30)
Hillview	8:24 pm	49		1 m/s N	Frogs & insects (45), WCC (45), traffic (41)
Railway View	8:43 pm	44		1 m/s N	WCC (41), insects (40), traffic (35)
Hazeldene	9:02 pm	36		1.2 m/s NW	Insects (33), dogs (31), WCC (30)
Escott	7:30 pm	32		0.8 m/s NW	Birds & Insects (29), wind (28), WCC inaudible

Table 3 WCC Noise Monitoring Results – 7/8 January 2009 (night)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	10:43 pm	36		Calm	Insects (35), cows (28), WCC barely audible
Cintra	11:00 pm	47		Calm	Frogs & insects (46), dogs (37), WCC barely audible
Old Colliery	10:02 pm	47		Calm	Insects (45), train (38), traffic (38), WCC (35)
Mountain View	12:48 am	39		Calm	Insects (35), domestic noise (33) WCC (33)
Hillview	11:17 pm	53		Calm	Train (50), insects (49), WCC (39)
Railway View	12:09 am	42		Calm	WCC (39), insects (38)
Hazeldene	12:30 am	37		Calm	Insects (33), WCC (33), horses (29)
Escott	10:25pm	40		Calm	Frogs & insects (39), domestic noise (30), WCC barely audible

January - Special Frequency Monitoring – Park Hill

Table 1 WCC Noise Monitoring Results – 15/16 December 2008 Park Hill					
		dB(A),Leq	Inversion	Wind	

Period	Time		°C/ 100m	speed/ direction	Identified Noise Sources
Day	5:21 pm	48		<0.5 m/s, S	Insects (46), dogs (41), traffic (40), WCC inaudible
Evening	9:17 pm	44		1 m/s, NW	Insects (42), dogs (37), WCC inaudible
Night	12:59 pm	38		<0.5 m/s, NW	Insects (34), WCC (33) , wind chimes (31)

February

Table 1 WCC Noise Monitoring Results – 23 February 2009 (day)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	3:53 pm	38	n/a	1.3 m/s ENE	WCC (37) , birds (30)
Cintra	4:10 pm	39	n/a	1.1 m/s E	WCC (39) , birds (27)
Old Colliery	3:15 pm	37	n/a	1.3 m/s NW	WCC (36) , insects/birds (30)
Mountain View	5:25 pm	34	n/a	1.8 m/s SW	Birds (33), domestic noise (30) WCC inaudible
Hillview	4:29 pm	43	n/a	1.3 m/s SE	Traffic (43), WCC (31)
Railway View	4:47 pm	35	n/a	1.8 m/s WNW	WCC(35) , insects (20)
Hazeldene	5:07 pm	45	n/a	1.5 m/s SW	Birds (45), traffic (36), WCC (<30)
Escott	3:35 pm	31	n/a	1.8 m/s WNW	WCC (30) , birds/insects (24)

Table 2 WCC Noise Monitoring Results – 23 February 2009 (evening)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	8:15 pm	41	>+3	Calm	Insects (41), WCC inaudible
Cintra	8:32 pm	39	>+3	0.4 m/s N	Insects (39), traffic (30), WCC inaudible
Old Colliery	7:45 pm	40	>+3	0.4 m/s N	Traffic(38), insects (35), WCC barely audible
Mountain View	9:45 pm	41	>+3	0.9 m/s WSW	Insects (41), WCC barely audible
Hillview	8:50 pm	49	>+3	0.4 m/s N	Traffic (47), insects (44), WCC (<30)
Railway View	9:07 pm	42	>+3	Calm	WCC (40) , insects (38)
Hazeldene	9:29 pm	45	>+3	0.4 m/s N	Traffic (43), insects (41), WCC barely audible
Escott	7:58 pm	38	>+3	Calm	Insects (38), WCC inaudible

Table 3 WCC Noise Monitoring Results – 23/24 February 2009 (night)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	10:40 pm	35	>+3	1.3 m/s NW	Insects (35), WCC (<25)
Cintra	11:06 pm	35	>+3	2.6 m/s NW	Insects (35), WCC (<25)
Old Colliery	10:05 pm	44	>+3	Calm	Plane (42), insects (40), WCC (32)
Mountain View	12:35 am	41	+2	4.0 m/s NNE	Insects (41), WCC (<30)
Hillview	12:55 pm	43	>+3	1.8 m/s N	Insects (42), traffic (35), WCC barely audible
Railway View	1:12 am	39	>+3	0.9 m/s NNW	Train (36), WCC (34) , insects (33)
Hazeldene	12:17 am	42	+1	3.6 m/s NNE	Insects (42), WCC (30)
Escott	10:23 pm	35	>+3	Calm	Insects (35), WCC (<25)

March

Table 1 WCC Noise Monitoring Results – 11/12 March 2009 (day)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	4:05 pm	41	n/a	4.7 m/s E	Wind (39), WCC (36) , insects (32)
Cintra	4:23 pm	38	n/a	4.9 m/s E	Train (35), traffic (33), birds (30), WCC inaudible
Old Colliery	3:20 pm	47	n/a	5.8 m/s E	Wind (45), insects/birds (42), WCC inaudible
Mountain View	3:35 pm	36	n/a	5.4 m/s E	Insects (35), traffic (30), WCC inaudible
Hillview	4:38 pm	46	n/a	5.4 m/s E	Traffic (44), WCC (39) , birds (36)
Railway View	4:20 pm	38	n/a	4.9 m/s E	WCC(35) , traffic (33), birds (30)
Hazeldene	3:53 pm	44	n/a	5.2 m/s E	Traffic (42), insects (40), WCC inaudible
Escott (12/3)	7:05 am	43	n/a	0.4 m/s WSW	Birds (43), WCC (33) ,

Table 2 WCC Noise Monitoring Results – 11 March 2009 (evening)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	8:17 pm	43	n/a	5.4 m/s E	Insects (40), WCC (39) , wind (30)
Cintra	8:35 pm	35	n/a	4.9 m/s E	Insects (34), traffic (30), WCC inaudible
Old Colliery	7:41 pm	50	n/a	5.8 m/s E	Insects (50), traffic (40), WCC (35)
Mountain View	9:45 pm	36	n/a	2.7 m/s E	Insects (34), wind (32), WCC inaudible
Hillview	8:52 pm	56	n/a	4.7 m/s E	Train (56), insects (43), WCC (36) , wind (30)
Railway View	9:10 pm	44	n/a	4.7 m/s ESE	Insects (42), train (37), WCC (35)
Hazeldene	9:29 pm	40	n/a	3.6 m/s E	Insects (39), traffic (35), WCC inaudible
Escott	8:00 pm	42	n/a	5.6 m/s E	Insects (41), WCC (34)

Table 3 WCC Noise Monitoring Results – 11/12 March 2009 (night)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	10:37 pm	45	>+3	2.2 m/s E	Insects (42), WCC (42)
Cintra	10:55 pm	33	>+3	1.3 m/s E	WCC (31) , insects (28),
Old Colliery	10:02 pm	39	>+3	2.2 m/s E	Insects (38), WCC (35)
Mountain View	1:38 am	31	>+3	Calm	Insects (31), WCC inaudible
Hillview	11:12 pm	48	>+3	Calm	Traffic (48), WCC (33) , insects (31)
Railway View	1:01 am	44	>+3	0.9 m/s SW	WCC (41) , traffic (39), insects (37)
Hazeldene	1:20 am	33	>+3	0.7 m/s SW	Insects (32), traffic (25), WCC inaudible
Escott	10:21 pm	37	>+3	2.2 m/s E	Insects (35), WCC (32)

Appendix 3 – Groundwater and Surface water monitoring data.

Werris Creek Coal Mine Community Consultative Committee

Thirteenth Meeting of the Committee

Whitehaven Training Room, Werris Creek Coal Mine

10.00am 19 November 2009

MINUTES

1. Record of Attendance:

Ron Short (Chairman); Lindsay Bridge (Community Representative); Noel Taylor (Community Representative); Chris Holley (Community Representative); Jill Coleman (Community Representative); Ron Van Katwyk (Liverpool Plains Shire Council - LPSC); Des George (Werris Creek Coal - WCC); Mick Post (Project Manager WCC); Lynden Cini (Environmental Officer WCC); Lisa Single (WCC).

Apologies: Casper Dieben (Whitehaven)

RS addressed the committee welcoming RVK to the Committee. RVK is the Director of Environmental Services for the LPSC. JC asked if Paul Moules (LPSC Councilor) is replacing the other council representative. RVK commented that in Council's September report that Paul was appointed as the Council delegate to this committee. The CCC have not been notified of the appointment so therefore Paul Moules wasn't included in the distribution of the last minutes so therefore he wouldn't have known the meeting was on. RVK to notify council that the CCC hasn't been notified of Paul Moules appointment.

2. Minutes of Previous Meeting

Minutes of the previous meeting 29th July 2009 accepted as true representation of business conducted on day. Motion moved.

Moved: Noel Taylor, Seconded: Ron Short. Motion carried

3. Declaration of Pecuniary or other interests

None declared.

4. Matters Arising

- RS pointed out a wording error in the minutes of the 29th July 2009. This has now been corrected.
- In relation to the questions and discussions of the dust issues, RS has had a brief discussion with RVK. RVK indicated that Council was pursuing the questions regarding the dust issues.
- Another matter came up of who was looking at the cumulative impact and the answer that RS got from the authorities was that nobody was. It is not known if that has been raised in Council's correspondence. It is a concern that as the mine develops; cumulative impact of uncontrolled dust emissions off trains is going to cause some problems for some people. RVK commented that the dust issue is starting to be addressed in the Hunter Valley. Dust monitoring stations are just being installed by the new EPA, (Department of Environment,

Climate Change and Water – DECCW). There is controversy in the community about the number of stations and the particulate size that is being monitored. RVK thinks there are about 17 stations going in and only 2 are monitoring the particular size that affects the lungs. In our particular area, it is not going to hit the agenda until the mining DA's are actually lodged. This is a bigger issue than WCC. RVK looking for some material to put into a submission when the DA's go on exhibition and this should be somewhere at the top

5. New Matters for Discussion Under General Business

- DG – New Mine Operations Plan & Road Closures for Blasting.
- LB – Made a point as per the local Coal sales at WCC that the community is unaware of the positive effect this could have for the mine and any other positive things that the Company does for the community. The CCC could draft up something and run it past the promotional group. Management to get back to the CCC.

6. Quarterly Monitoring Results April, May, June 2009

Weather Station – No Problems for the Quarter. 100% capture of data since the upgrade of the weather station January 09.

Dust Monitoring - One exceedance in May. It was taken for the month from 5/5/09 to 4/6/09. The monitor is situated on the Patterson residence north of the mine site. A review of the weather data at that period was strong SSE winds of above 3-5 per second for the predominate course of that month. Major catalyst to this was the wheat paddock that was exposed for most of that month, carried the majority of the dust to this monitor. The exceedance was minor as 3.6 is the limit and the result was 5. High Volume Air Sampling was done and all results were consistent with previous results.

Noise – no issues

Blasting – 16 blasts, no exceedances.

Ground Water Monitoring – RS asks LC to outline why the ground water data shows quite a variation in MW4 from the other ground water stations. Also in the March quarter report MW4 had no tests done but MW4b was tested. LC replied that in early 2008, MW4 was an “on the lease groundwater monitoring point”, which is on the southern side of the pit. It is an open case bore and an animal went down the bore and died with the carcass rotted in the pipe. The bore has a very bad smell and sampling continued which has resulted in some high readings. WCC put down a 2nd monitoring bore about 10 metres from MW4 and that is now MW4b. WCC changed companies that do all the ground water monitoring and the new people took a sample from MW4. The 2nd sampling was done from MW4b and the results were consistent with what was recorded in the past. RS enquired if some alkalinity and mercury readings seem to be in excess of the underground water monitoring figures. The mercury reading in MW4b seems to be excessive and that there seems to be quite a variation of .0013 in the figures between MW4 and MW4b. Is this enough to create a concern? There also seems to be a big discrepancy in some of the figures across the ground water testing sites on calcium carbonate and quite a few of the other elements as well. Is the bore at the bottom of the site being hammered with human impact? We will see what happens in the next quarter monitoring. The ground water issues are crucial to the downstream people. NT commented that his creek and irrigation wells had the most water in them for 10 years 6 weeks ago. LC explains that all of the water quality monitoring that is done over a course 12 month period independently reviewed by an expert. This independent body takes all of the data, review it and check to see that there are no trends or strange jumps in the elements.

Surface Water Monitoring – no issues.

Quarterly Report accepted by the Committee.

7. General Business

A. History of Underground Workings update

RS ask if there was any value of the CCC running an ad in the local paper enquiring if anybody that has any information or would like to contribute. It is agreed that RS would be the point of contact for any forthcoming information. RS to implement.

B. Discussion regarding community programs which may need funding support

- RS commented that Whitehaven Coal funded a project at the local show. The Cattle committee used the money to introduce a couple of new cattle classes. One that they were proud of was a High School teams judging event. There had to be teams of 3 high school students emerging from the Ag sections. The aim was to give a valuable exercise that any prize money that was won went back to the school and the Agriculture section. The event was won by Calrossy, second was McCarthy and third was Calrossy. A photo will be presented to Whitehaven Coal in appreciation in the near future. It was a positive outcome for WCC.
- NT stated Quipolly Church is being restored and that timber was needed. MP asks that somebody draft a letter and send to Mick Post.
- MP said donations to CWA, Werris Creek Scouts & the Railway Museum have been made. Employees are also donating to Westpac Helicopter via a wage deduction. To date \$14,000.00 has been raised.

C. Mine Operation Plan

WCC is required to have an approved Mining Plan demonstrating what the mining schedule is over the next couple of years. A number of plans were displayed showing where the original consent plans were and where WCC is now and where WCC were heading. The approval that is current is for the next 2 years. WCC has gained consent to **1)** open up the Pit, **2)** mine through the underground workings, dewater the underground workings and take that water south to a surface water holding facility, raise the surrounding topographical areas is to bring up to 445ahd from 410ahd **3)** Extend the overburden placement north and easterly. This will come out close to the edge of the lease and close to the Werris Creek Road. This will give WCC extra room for the dumping and will minimise the visual and noise impact. LB asked about the earlier vegetation and preservation order. LC stated WCC have come to an agreement with the departments that the timber can be removed but an offset has been done in the way of locking up a significant proportion of the timber on "RailwayView" for 100 years.

D. Road Closure for Blasting

As the Mine develops it will be necessary to close the road for each blast. One of the consent conditions is to develop a traffic management plan in conjunction with Council and the DPI. There will be some sort of warning system for motorists and this is still to be discussed with Council. All blasting normally takes place at 1:15pm.

- E.** Lynden Cini announced that this was to be his last CCC meeting for WCC as he had resigned from WCC. LC thanked the Committee for their time and input. RS responded on behalf of the committee and expressed their appreciation in his handling of the meetings. The Committee wishes Lynden well in the future.

Meeting Closed 11:25am

Next Meeting 11th March 2010

Copy to:

Ron Short
Chris Holley
Jill Coleman
Noel Taylor
Lindsay Bridge

Chairman
Community Representative
Community Representative
Community Representative
Community Representative

Anna Bradley
Michael Lloyd
Ron Van Katwyk
Paul Moules

DoP
DII
LPSC
LPSC

Casper Dieben
Brian Cullen
Danny Young
Mick Post
Des George
Andrew Wright

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WERRIS CREEK COAL PTY LTD

ENVIRONMENTAL MONITORING

QUARTERLY REPORT

April, May, June 2009

This report covering the period 1st April 2009 to 30st June 2009 is the quarterly Environmental Monitoring Report written for the Community Consultative Committee.

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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Appendix 1.....Dust Monitoring Results – PM10

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1.0 WEATHER STATION

WEATHER

Since the upgrade of the Werris Creek Coal (WCC) weather station in January 2009 there has been no meteorological data loss at the site.

Weather data was available for 100% of April.

Weather data was available for 100% of May.

Weather data was available for 100% of June.

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”

WCHV2 – “Patterson”

WCHV3 – “Railway View”

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 DECCW – EPA protocols and results are reported as micro grams per cubic meter of air sampled or ug/m³.

2.1.1 Monitoring Data Results

Please see PM10 High Volume Air Sampler monitoring data under Appendix 1

2.1.2 Discussion - Compliance / Non Compliance

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

Limits were removed from Environment Protection Licence 12290 pertaining to mean annual dust deposition, however, in accordance with commitments within the approved Air Quality Monitoring Program, monthly routine air quality monitoring for Werris Creek Coal continues to be undertaken for deposited dust.

2.2.1 Monitoring Data Results

Please see Appendix 2 – Deposited Dust Monitoring Results.

In accordance with the Department of Planning, Development Consent, deposited dust monitoring limits are set at a maximum level of 3.6 g/m²/month. During the 3 month period, WCC exceeded this result during May monitoring at the WC7 Patterson monitoring location. A result of 5.0 g/m²/month was recorded during May with onsite meteorological data indicating strong South Easterly winds were predominant throughout the month. It is believed that due to the monitor's location to the North of operations and prevailing South Easterly winds, a large area of exposed, cultivated farmland to the South East of the monitor influenced monitoring during this period.

2.3 AIR QUALITY COMPLAINTS

No complaints received regarding excessive dust for the period.

3.0 NOISE

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

R2: **Zeolite**, R3: **Cinta**, R4: **Old Colliery** (mine owned residence), R5: **Mountain View**, R6: **Hillview** (mine owned residence) R7: **Railway View** (mine owned residence), 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 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 that +3 degreesC/100m.

3.1 OPERATIONAL NOISE

3.1.1 Monitoring Data Results

Please see noise monitoring data under Appendix 3

3.1.2 Discussion - Compliance / Non Compliance

There were no noise exceedances recorded for the period.

Any elevated levels represented in the results are not recorded exceedances and this is directly due to one or a combination of the factors listed below.

- Temperature inversion of greater that +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

No actions necessary regarding routine noise monitoring.

3.2 NOISE COMPLAINTS

No Complaints received for the period.

4.0 BLAST

During this reporting period a total of 16 blasts numbered from 163 to 179 were fired by the blasting contractor, Orica Mining Services.

4.1 BLAST MONITORING

4.1.1 Monitoring Data Results

Table 1

Shot number	Date fired	Time Fired	Environmental Monitor Results							
			Glenala		Railway View		Old Colliery		Escott Road	
			Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)	Vib (mm/s)	OP (dB)
163	1/04/2009	13:10	-	-	0.33	110.3	0.93	113.6	-	-
164	6/04/2009	16:36	-	-	0.2	110.4	-	-	1.88	113.8
165	17/04/2009	14:04	-	-	1.84	112.1	-	-	-	-
166	24/04/2009	13:17	-	-	3.31	110.8	0.65	107	-	-
167	1/05/2009	13:17	-	-	0.65	110.7	1.11	109.3	-	-
168	4/05/2009	13:17	-	-	0.1	110.8	1.16	114.4	0.69	108.3
169	5/05/2009	13:08	-	-	0.67	111	0.4	106.4	-	-
170	8/05/2009	13:21	-	-	0.75	100.2	0.48	101	0.43	98.5
171	14/05/2009	13:06	-	-	1.54	114.8	1.08	112.2	1.37	89.7
172	15/05/2009	13:16	-	-	1.12	112.8	0.86	109.4	-	-
173	22/05/2009	13:07	-	-	0.1	109.1	1.21	113.3	0.87	113.8

174	5/06/2009	13:07	-	-	1.39	122.1	0.08	112.2	-	-
175	5/06/2009	13:07	-	-	1.39	122.1	0.08	112.2	-	-
176	16/06/2009	13:11	-	-	0.52	107.4	0.28	99.8	-	-
177	17/06/2009	13:05	-	-	1.16	113.7	0.79	113.2	-	-
178	23/06/2009	14:24	-	-	2.59	81.2	2.01	106	-	-
179	23/06/2009	14:24	-	-	2.59	81.2	2.01	106	-	-

4.1.2 Discussion - Compliance / Non Compliance

All blasts complied with licence limits. Columns with no value represent monitors which did not trigger a reading at that site for the given blast.

4.1.3 Action Taken

No Actions necessary.

4.2 BLAST COMPLAINTS

No complaints received regarding blasting.

5.0 WATER

Groundwater monitoring was undertaken over the 15th and 25th of June 2009, whilst surface water monitoring was undertaken on the 6th May 2009. All samples were collected and analyzed by ALS Environmental.

4.1 GROUND WATER

4.1.1 Monitoring Data Results

See Appendix 4 - Groundwater Monitoring results.

4.1.2 Discussion - Compliance / Non Compliance

No recorded exceedances. Data recorded against monitoring location MW4, sampled on the 15th June 2009 is incorrect. A second sample was taken from the correct location on the 25th June 2009, these results have also been provided within Appendix 3.

4.2 SURFACE WATER

4.2.1 Monitoring Data Results

See Appendix 4 – Surface water monitoring results.

4.2.2 Discussion - Compliance / Non Compliance

Ground water and routine surface water monitoring undertaken by ALS Environmental returned typical water quality results for the period.

6.0 COMPLAINTS SUMMARY

There were no complaints received during the three month reporting period.

7.0 GENERAL

In general WCC environmental performance over this quarter was very good, with no major concerns noted during monitoring and reporting.

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

Regards

Lynden Cini
Environmental Officer
Whitehaven Coal

Appendices

Appendix 1 – PM10 Dust Monitoring Data

Appendix 2 – Deposited Dust Monitoring Data

Appendix 3 – Noise monitoring Results

April 2009

Table 1 WCC Noise Monitoring Results – 27 April 2009 (day)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	3:52 pm	39	n/a	4.9 m/s NNW	Insects/birds (37), wind (32), WCC inaudible
Cintra	4:10 pm	38	n/a	4.9 m/s W	Insects/birds (37), wind (32), traffic (28), WCC inaudible
Old Colliery	3:15 pm	39	n/a	4.0 m/s W	Wind (35), insects/birds (34), traffic (33), WCC inaudible
Mountain View	5:28 pm	43	n/a	2.2 m/s WNW	Birds/insects (43), wind (31), WCC (<30)
Hillview	4:27 pm	55	n/a	4.9 m/s WNW	Traffic (55), WCC (37), birds (37), wind (30)
Railway View	4:40 pm	46	n/a	3.1 m/s WNW	Traffic (44), WCC (42), birds (30)
Hazeldene	5:10 pm	37	n/a	3.1 m/s WNW	Traffic (34), wind (30), birds/insects (27), WCC inaudible
Escott	3:24 am	35	n/a	3.1 m/s WSW	Insects/birds (33), wind (30), train (28), WCC inaudible

Table 2 WCC Noise Monitoring Results – 27 April 2009 (evening)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	8:20 pm	30	n/a	3.6 m/s WNW	Wind (28), insects (25), WCC inaudible
Cintra	8:37 pm	29	n/a	3.1 m/s WNW	Wind (27), insects (22), traffic (22), WCC inaudible
Old Colliery	7:40 pm	35	n/a	4.5 m/s WNW	Traffic (35), WCC barely audible
Mountain View	9:42 pm	30	n/a	3.1 m/s WNW	Insects (28), WCC (25)
Hillview	8:45 pm	50	n/a	2.7 m/s WNW	Traffic (50), WCC (34), insects (30)
Railway View	9:03 pm	51	n/a	2.7 m/s NW	Train (49), WCC (46)
Hazeldene	9:25 pm	31	n/a	2.7 m/s WNW	Traffic (30), WCC (24)
Escott	8:02 pm	32	n/a	4.0 m/s WNW	Plane (32), insects (25), WCC inaudible

Table 3 WCC Noise Monitoring Results – 27/28 April 2009 (night)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	10:35 pm	26	>+3	2.2 m/s WNW	Bats (23), wind (23), WCC inaudible
Cintra	10:52 pm	33	>+3	1.7 m/s NW	Dogs (32), traffic (25), WCC inaudible
Old Colliery	10:00 pm	35	>+3	2.7 m/s NW	Traffic (34), birds (28), WCC (27)
Mountain View	12:33 am	28	>+3	3.1 m/s WNW	WCC (27), traffic (21)
Hillview	11:10 pm	42	>+3	2.2 m/s WNW	Traffic (42), WCC (32)
Railway View	12:10 am	44	>+3	2.2 m/s WNW	Train (43), WCC (37)
Hazeldene	12:50 am	38	>+3	2.9 m/s NW	Traffic (38), WCC (30), insects (27)
Escott	10:18 pm	26	>+3	2.7 m/s WNW	Birds (24), dogs (20), WCC inaudible

May 2009

Table 1 WCC Noise Monitoring Results – 28 May 2009 (day)					
Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	3:13 pm	39	n/a	1.3 m/s NW	Zeolite Australia (38), WCC (34)
Cintra	3:30 pm	38	n/a	0.4 m/s W	WCC (36), insects/birds (34)

Old Colliery	2:35 pm	35	n/a	2.2 m/s W	Insects/birds (31), traffic (30), WCC (30)
Mountain View	5:00 pm	35	n/a	2.2 m/s SSW	Birds/insects (35), traffic (21), WCC inaudible
Hillview	3:48 pm	57	n/a	0.9 m/s WNW	Train (57), birds (42), traffic (40), WCC (36)
Railway View	4:17 pm	46	n/a	0.4 m/s WNW	Traffic (44), WCC (42) , birds (30)
Hazeldene	4:41 pm	42	n/a	1.8 m/s SSW	Traffic (40), birds/insects (37), WCC inaudible
Escott	2:55 am	35	n/a	1.3 m/s WNW	Plane (34), WCC (27) , insects/birds (25)

Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	8:17 pm	33	n/a	1.8 m/s SE	WCC (32) , birds & insects (25),
Cintra	8:35 pm	34	n/a	2.2 m/s SSE	WCC (33) , birds & insects (26)
Old Colliery	7:40 pm	40	n/a	1.3 m/s S	Insects (38), WCC (32) , traffic (31)
Mountain View	9:44 pm	30	n/a	0.9 m/s SSE	WCC (30) , insects (20),
Hillview	8:53 pm	56	n/a	2.2 m/s SSE	Traffic (56), WCC (31) , birds & insects (30)
Railway View	9:10 pm	47	n/a	2.2 m/s SE	WCC (47) , insects (25)
Hazeldene	9:29 pm	30	n/a	1.8 m/s SE	WCC (29) , farm animals (22)
Escott	8:00 pm	32	n/a	1.8 m/s SSE	Plane (30), WCC (28) , insects (20)

Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	10:38 pm	35	>+3	0.9 m/s S	WCC (34) , traffic (28)
Cintra	10:55 pm	33	>+3	1.3 m/s S	WCC (31) , traffic (29), insects (26)
Old Colliery	10:02 pm	44	>+3	Calm	WCC (41) , birds & insects (39),
Mountain View	12:47 am	35	>+3	0.9 m/s SSE	WCC (34) , insects (30)
Hillview	11:07 pm	43	>+3	1.5 m/s S	WCC (42) , traffic (40),
Railway View	12:10 am	46	>+3	1.8 m/s SSE	WCC (46)
Hazeldene	12:30 am	47	>+3	0.9 m/s SE	Train (47), WCC (35) , insects (27)
Escott	10:21 pm	35	>+3	0.4 m/s SE	WCC (34) , train (25), insects (23)

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Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	5:12 pm	42	n/a	6.3 m/s W	Wind (40), birds (36), WCC (30)
Cintra	5:30 pm	45	n/a	5.8 m/s W	Wind (44), insects/birds (38), WCC inaudible
Old Colliery	4:35 pm	45	n/a	6.3 m/s W	Insects/birds (44), wind (35), WCC (35)
Mountain View	8:40 am	42	n/a	2.2 m/s SSW	Insects/birds (39), wind (38), traffic (30), WCC inaudible
Hillview	8:22 am	65	n/a	4.5 m/s WNW	Train (65), traffic (45), insects/birds (35), WCC (30)
Railway View	8:03 am	52	n/a	4.9 m/s WNW	WCC (51) , birds (44)
Hazeldene	8:22 am	40	n/a	4.9 m/s WNW	Traffic (38), insects/birds (34), WCC inaudible
Escott	4:55 pm	38	n/a	4.0 m/s WNW	Wind (35), insects/birds (32) plane (30), WCC inaudible

Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	8:18 pm	38	n/a	5.4 m/s WNW	Wind (35), birds & insects (32), plane (30), WCC

					faintly audible
Cintra	8:35 pm	41	n/a	4.9 m/s WNW	Wind (40), birds & insects (36), WCC inaudible
Old Colliery	7:40 pm	40	n/a	3.6 m/s WNW	Insects (35), wind (35), WCC (33)
Mountain View	9:44 pm	40	n/a	5.4 m/s W	Wind (39), WCC (35)
Hillview	8:54 pm	43	n/a	6.3 m/s W	Wind (39), WCC (39) , traffic (35)
Railway View	9:11 pm	52	n/a	7.2 m/s WNW	WCC (51) , wind (42)
Hazeldene	9:28 pm	43	n/a	5.8 m/s W	Wind (39), WCC (38) , insects (32)
Escott	8:01 pm	33	n/a	4.5 m/s WNW	WCC (30) , planes (28), wind (25)

Location	Time	dB(A),Leq	Inversion °C/ 100m	Wind speed/ direction	Identified Noise Sources
Zeolite Australia	10:37 pm	38	>+3	4.2 m/s WNW	Wind (37), insects (31), WCC inaudible
Cintra	10:55 pm	35	<+3	4.2 m/s WNW	Wind (35), WCC inaudible
Old Colliery	10:01 pm	38	<+3	4.5 m/s WNW	Wind (36), WCC (32) , insects (32), traffic (25)
Mountain View	12:50 am	38	<+3	4.9 m/s WNW	Wind (38), WCC (32)
Hillview	11:12 pm	46	>+3	4.0 m/s WNW	Traffic (46), WCC (35)
Railway View	12:15 am	50	>+3	4.9 m/s WNW	WCC (49) , wind (40)
Hazeldene	12:33 am	41	>+3	5.4 m/s WNW	Wind (39), WCC (37)
Escott	10:20 pm	33	>+3	4.5 m/s WNW	Wind (32), WCC (27)

Appendix 4 – Groundwater and Surface water monitoring data.