



**Werris Creek Coal Mine Community Consultative  
Committee**

**Inaugural Meeting of the Committee**

**Liverpool Plains Shire Council Chambers**

**10:30am 23<sup>rd</sup> June 2005**

The Chairman Cr Ron Short welcomed members to the meeting and advised that an invitation had been extended to Cr Ian Lobsey, Mayor, Liverpool Plains Shire Council and Mr Keith Ross, Chairman Werris Creek Coal Pty Ltd. Cr Lobsey had tendered an apology.

A copy of the Environmental Management Strategy was given to each member as a reference document and guide to company obligations.

Present:	John Tynan	Senior Mining Engineer Roche Mining
	Bob Corbett	Environmental Manager Werris Creek Coal Pty Ltd
	Keith Ross	Werris Creek Coal Pty Ltd
	Ray Robinson	Statutory Manager Werris Creek Coal Pty Ltd
	Tony Ryan	Property owner
	Chris Holley	President ARM Inc.
	Kay Neil	Property owner
	Mike Lomax	Property owner
	Ron Short	Chairman Councillor LPSC
	Colin Phillips	D.I.P.N.R.
	Rebecca Tralaggan	Secretary

**Committee Responsibilities**

The Chairman invited Colin Phillips to give an outline of the role of the Committee and thanked the Company and Council and the community members for assisting in the establishment of the Committee. General questions were raised as to how the Committee would operate.

The Chairman encouraged members to raise issues at meetings in an open and frank matter so that the operation of the Committee were transparent so that all interested parties would develop confidence in the Committee.

### **Inspection of Site**

The Chairman advised that due to site conditions, the planned bus tour of the site had been deferred to a future date. Colin Phillips expressed his desire to inspect while he was in the district and mining company representative undertook to ensure Mr Phillip's wishes were met.

### **Outline of Mining Operations** (Ray Robinson)

A slide presentation of some of the earlier work which commenced on the 11<sup>th</sup> April detailed:

- Overburden removal
- Drilling
- Blasting
- Dam construction
- Dirty water/ clean water management
- Workshop/ office construction site
- Storage pads/ crushing plant
- Rail loading facility/access road

A range of questions were raised concerning:

- Blasting/noise measurement practices
- Surface water management and downstream impacts
- Dust control/ weather station
- Local employment
- Bore monitoring
- Complaints processing

Bob Corbett, Ray Robinson and Keith Ross responded to these points of discussion with Colin Phillips emphasizing the importance of complaints being lodged quickly so that rapid assessment and resolution of those complaints was possible.

### **General Business**

In response to the matter of surface water management raised by Kay Neal and the concerns of downstream landholders that there may be changes to flow patterns, Colin Phillips suggested that a copy of the Water Management plan be made available. The Chairman proposed that the deferred Committee inspection of the development site be combined with an invitation being extended to some Minewatch members and other nominated residents so that any concerns regarding the project could be addressed.

**On the motion of Tony Ryan and Kay Neil, it was resolved that this Committee initiate an information meeting and site inspection and that the Chairman liaise with Werris Creek Coal Pty Ltd and the Chairman of the Minewatch Committee in organizing the meeting.**

There being no further general business, the Chairman thanked those in attendance for their constructive and cooperative contribution to the inaugural meeting. The meeting terminated at 1:00pm.



**CARBON BASED ENVIRONMENTAL  
PTY LIMITED**  
ABN 74 102 920 285



**WERRIS CREEK COAL**  
**ENVIRONMENTAL MONITORING**  
**HIGH VOLUME AIR SAMPLERS**  
**(PM10)**  
**AND**  
**WEATHER MONITORING**  
**MARCH/APRIL 2005**

Colin Davies BSc MEIA CEnvP  
Environmental Scientist  
30 May 2005

Carbon Based Environmental Pty Limited  
47 Boomerang St  
CESSNOCK NSW 2325  
Telephone 0249904443 Facsimile 0249904442

## EXECUTIVE SUMMARY

Carbon Based Environmental Pty Limited is contracted by Werris Creek Coal Pty Limited to conduct High Volume Air Sampling environmental monitoring for Fine Particulates (PM10) and meteorological monitoring at locations around the mining area.

The monitoring includes;

- Four PM10 monitors (sites Ryan, Patterson, Marquette and Eurunderee);
- One Meteorological Station (Mine Site).

The location of the monitors will be included in Figure 1 when provided by Werris Creek Coal.

This is the first report prepared by Carbon Based Environmental and includes the following;

- HVAS monitoring results for the March and April reporting period.

Summary:

- All individual PM10 24 hour average results, at all sites, were below the short term 24 hour impact criteria of 50ug/m<sup>3</sup>;
- Currently, all PM10 sites are below the long term impact and land acquisition annual impact criteria of 30ug/m<sup>3</sup>;

**Statements in green indicate conformance to criteria, statements in red indicate non-conformance to criteria.**

All sites commenced operation on the 25 March 2005, with the first HVAS run occurring on the 28 March 2005. 100% data recovery was achieved from 3 of the 4 HVAS sites. One run was not monitored at the Eurunderee site due to a power failure. The weather station recorded data up until the 19<sup>th</sup> April 2005 when a command was inadvertently sent from the site office instructing the station to stop logging data. Additional training was provided to site personnel to avoid this situation occurring again.

Weather conditions indicate 0 mm rainfall between the 25 March and the 19 April 2005. The long term median rainfall at Gunnedah for April is 32.5 mm. Wind was predominantly from the SE to SSE. Temperatures ranged from 7.3 to 31.4 with a mean of 19.9 degrees C.

# 1.0 SAMPLING PROGRAM

The High Volume Air Samplers are operated to the applicable Australian Standard, DEC(EPA) approved method or guideline. All laboratory analysis was conducted by a National Association of Testing Authorities (NATA) accredited laboratory.

The following Australian Standards were used:

AS3580.9.6. "Methods for Sampling and Analysis of Ambient Air. Determination of Suspended Particulates—PM10 High Volume sampler with size selective inlet - Gravimetric method."

Sampling is scheduled for 24 hours every 6 days to the DEC(EPA) protocol. The results are reported as  $\mu\text{g}/\text{m}^3$ .

The location of the High Volume Air Samplers was determined based on the Australian Standard AS 2922 Ambient Air – Guide for the Siting of Sampling Units.

Site locations are:

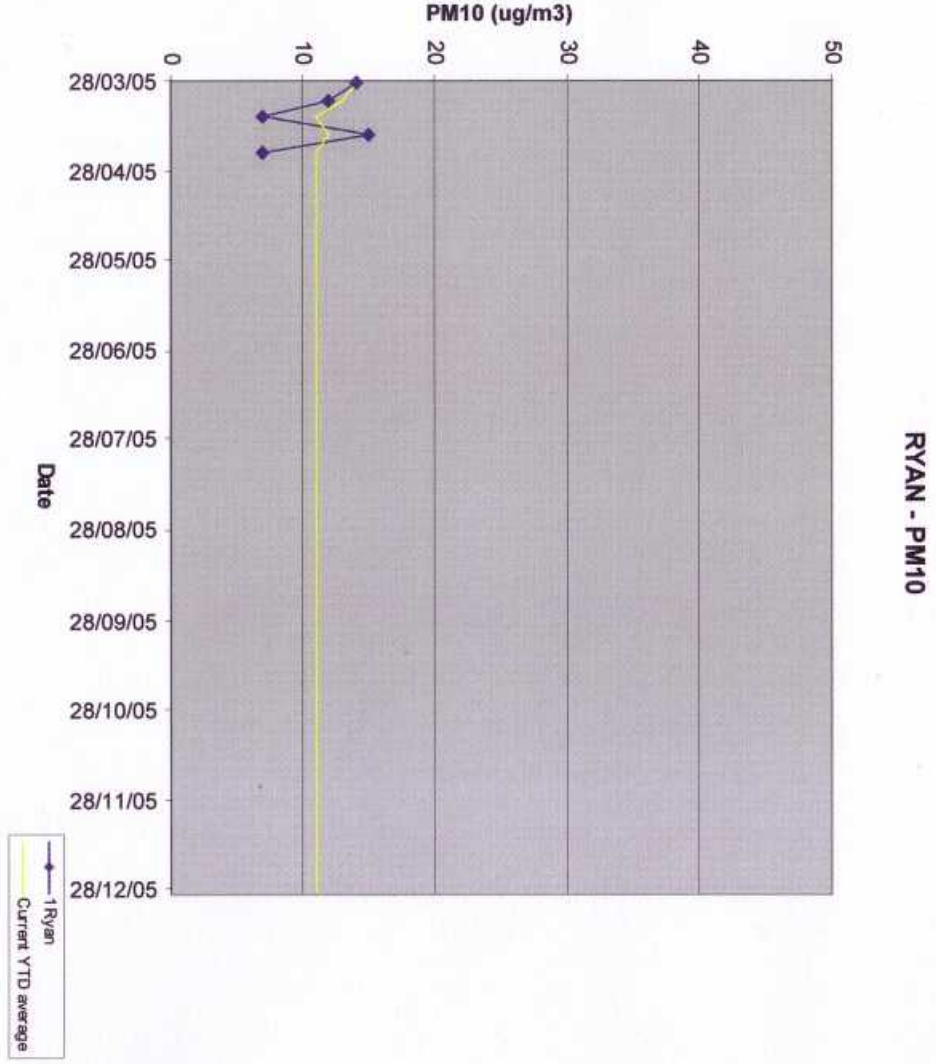
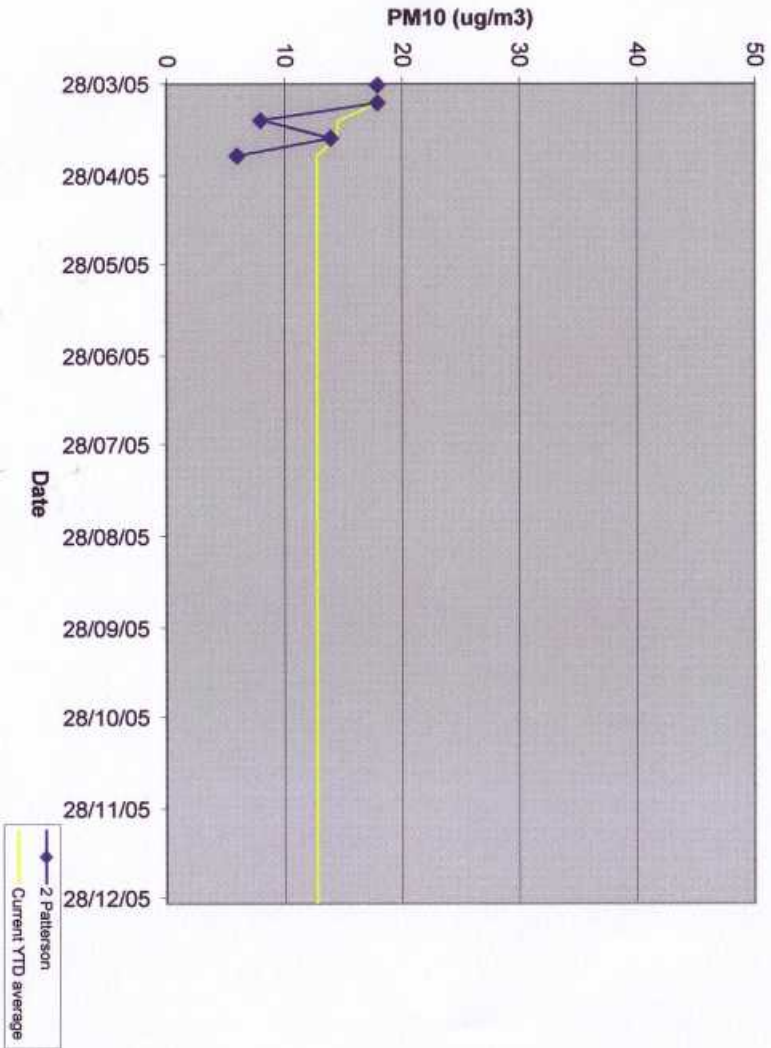
<b>PM10</b>	<b>Meteorological Station</b>
Ryan	Mine Site
Patterson	
Marquette	
Eurunderee	

## 2.0 REPORTING PERIOD RESULTS

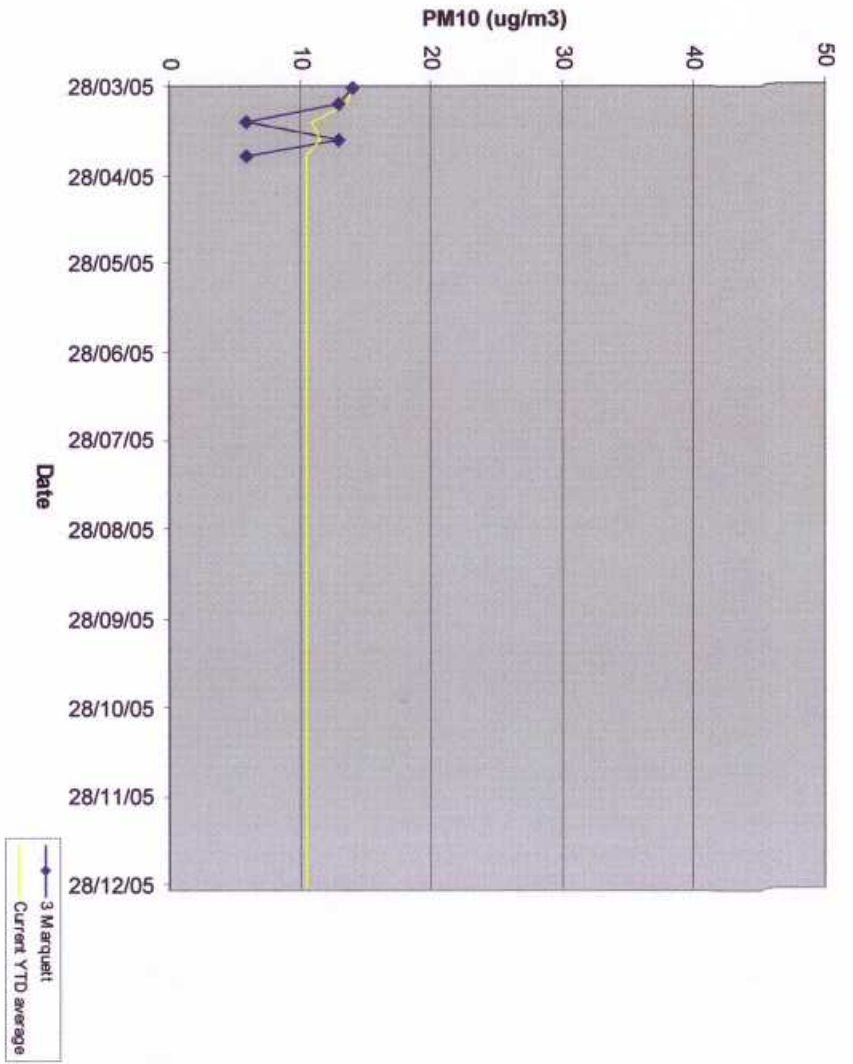
The laboratory analysis certificates are provided in Appendix 1. Charts for individual sites follow.

Results currently indicate conformance to Air Quality Monitoring Program criteria.

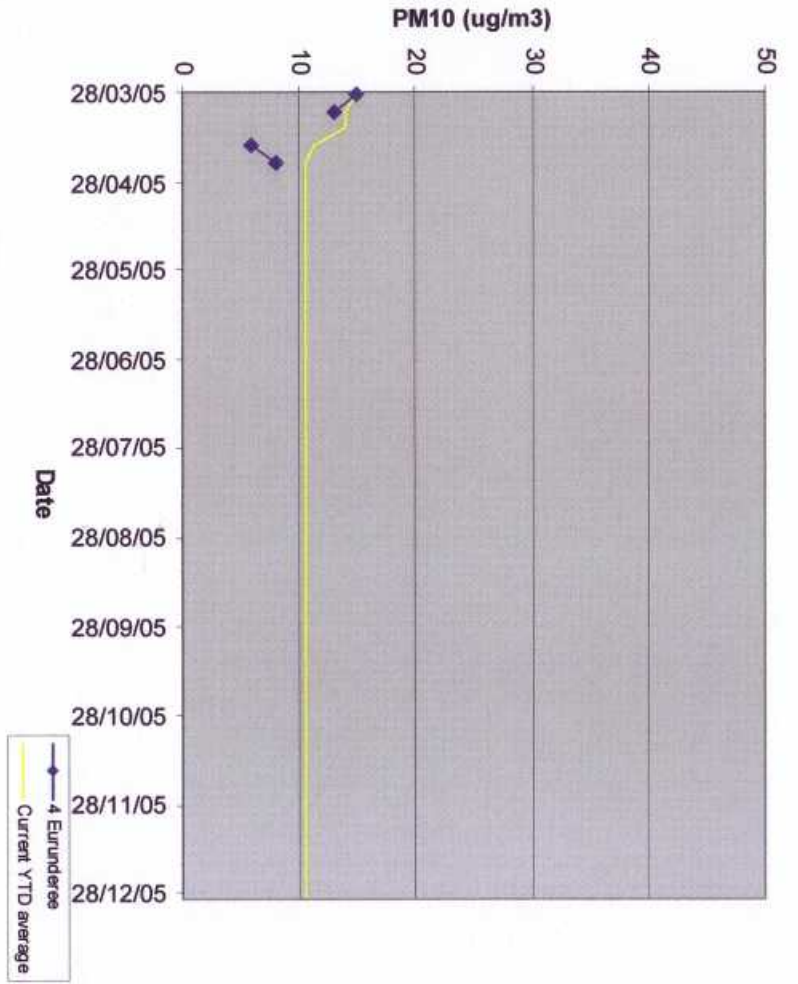
Werris Creek: High Volume Air Sampling Report										
Month : March April 2005										
All results ug/m <sup>3</sup>										
1. PM10										
Site	Date	Result	Report Average	Annual Average						
Ryan	28/03/2005	14								
	3/04/2005	12								
	9/04/2005	7								
	15/04/2005	15								
	21/04/2005	7	11.0	11.0						
Patterson	28/03/2005	18								
	3/04/2005	18								
	9/04/2005	8								
	15/04/2005	14								
	21/04/2005	6	12.8	12.8						
Marquette	28/03/2005	14								
	3/04/2005	13								
	9/04/2005	6								
	15/04/2005	13								
	21/04/2005	6	10.4	10.4						
Eurunderee	28/03/2005	15								
	3/04/2005	13								
	9/04/2005	No data								
	15/04/2005	6								
	21/04/2005	8	10.5	10.5						
Criteria		<50		<30						
<table border="0"> <tr> <td style="width: 20px; height: 10px; background-color: #90EE90;"></td> <td>Meets criteria</td> </tr> <tr> <td style="width: 20px; height: 10px; background-color: #FF0000;"></td> <td>Does not meet criteria</td> </tr> <tr> <td style="width: 20px; height: 10px; background-color: #000000;"></td> <td>Not applicable</td> </tr> </table>						Meets criteria		Does not meet criteria		Not applicable
	Meets criteria									
	Does not meet criteria									
	Not applicable									
<p>Note 1 Annual data based on the currently available data and not on an annual amount of data.</p>										



MARQUETT - PM10



EURUNDEREE - PM10





## METEOROLOGICAL MONITORING

Meteorological data follows including;

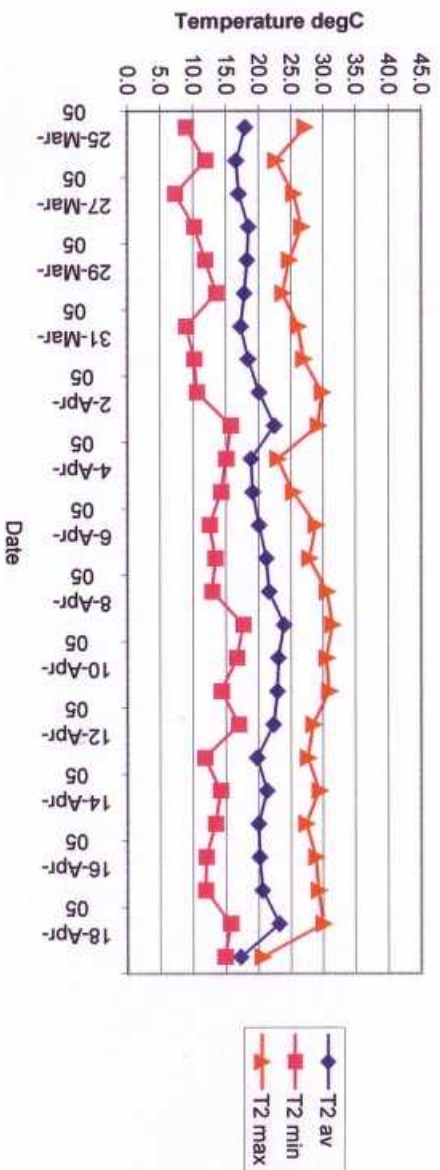
- Monthly text data summary;
- Charts of temperature, humidity, rain, wind speed and battery volts.
- Wind rose (frequency distribution diagram of wind speed and direction)

The station is configured to record the average data over each 10 minute interval.

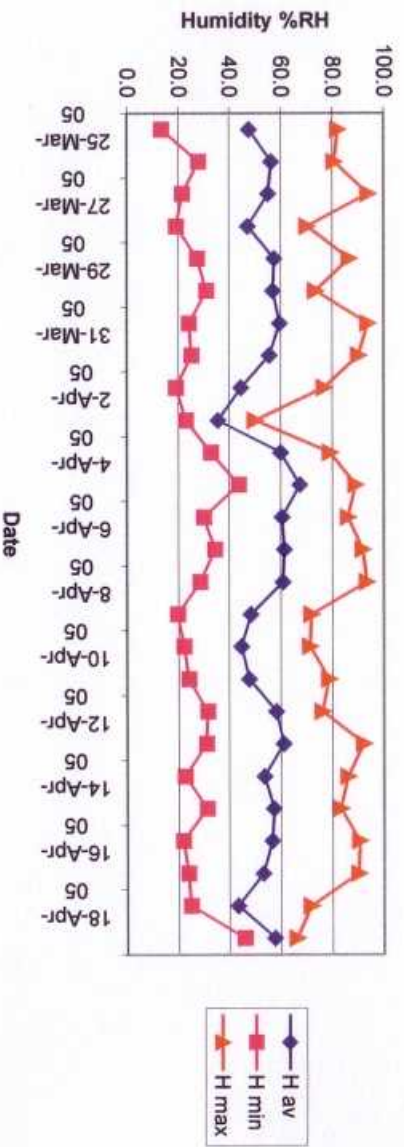
Summary Apr-05

Date	T2 min	T2 av	T2 max	INV min	INV av	INV max	H min	H av	H max	RAIN mm	WS min	WS av	WS max	ST min	ST av	ST max
25/03/2005	8.9	17.9	27.2	-22.3	-0.7	24.8	13.4	47.9	82.4	0.0	0.1	1.4	2.9	6.0	24.2	95.1
26/03/2005	11.9	16.5	22.6	-21.0	-4.7	13.3	27.9	56.5	80.8	0.0	0.5	2.9	5.6	4.6	12.7	40.5
27/03/2005	7.3	16.9	25.4	-22.7	-0.3	26.0	21.5	55.3	94.1	0.0	0.0	0.8	2.3	4.7	30.6	89.0
28/03/2005	10.2	18.4	26.7	-20.4	0.3	28.7	19.2	47.4	70.4	0.0	0.0	1.5	4.4	5.4	27.9	97.5
29/03/2005	11.8	18.2	24.7	-23.6	-4.8	11.0	27.4	57.6	86.7	0.0	0.2	2.6	4.7	5.7	14.6	60.2
30/03/2005	13.5	17.8	23.7	-22.9	-3.0	12.1	31.1	57.1	73.6	0.0	0.1	1.7	4.0	4.7	19.8	89.9
31/03/2005	8.9	17.2	26.1	-23.9	-3.4	15.3	24.2	59.8	94.0	0.0	0.2	1.5	3.3	2.7	21.5	88.4
1/04/2005	10.2	18.3	27.0	-22.9	-1.9	17.9	25.1	55.7	90.3	0.0	0.1	0.9	2.5	3.3	27.9	84.2
2/04/2005	10.6	20.0	29.8	-22.5	1.2	31.2	19.1	44.7	76.9	0.0	0.0	0.6	2.1	5.7	31.5	100.8
3/04/2005	15.7	22.4	29.2	-18.1	0.9	28.1	22.9	35.7	50.1	0.0	0.0	1.8	4.1	5.6	20.5	72.7
4/04/2005	15.0	18.8	22.9	-7.0	3.1	31.4	32.8	60.2	79.2	0.0	0.0	2.5	5.0	5.8	16.2	59.6
5/04/2005	14.2	19.1	25.3	-19.6	-5.4	8.3	43.8	67.5	89.2	0.0	0.8	2.5	5.0	2.9	12.3	24.8
6/04/2005	12.5	20.0	28.9	-22.2	-3.5	10.3	29.9	60.6	86.3	0.0	0.2	1.6	3.3	3.3	19.9	81.4
7/04/2005	13.4	21.1	27.8	-19.9	-1.8	18.4	34.4	61.5	92.0	0.0	0.1	1.6	4.2	6.7	22.8	91.5
8/04/2005	12.9	21.6	30.6	-20.6	-1.8	23.1	28.6	61.0	93.6	0.0	0.1	1.4	3.7	6.1	25.6	87.6
9/04/2005	17.6	23.9	31.4	-22.4	-2.9	16.5	19.7	48.5	71.9	0.0	0.0	1.0	2.5	5.7	35.6	94.7
10/04/2005	16.6	23.0	30.5	-23.5	-1.9	23.7	22.2	44.9	71.4	0.0	0.0	1.0	3.2	5.5	31.9	90.5
11/04/2005	14.3	22.8	31.0	-21.8	0.4	22.6	24.1	47.8	78.8	0.0	0.1	1.2	2.6	4.6	25.3	92.1
12/04/2005	16.9	22.2	28.4	-19.0	-5.2	14.4	31.5	58.4	76.2	0.0	0.4	2.6	5.1	3.0	13.0	36.9
13/04/2005	11.7	19.7	27.6	-22.0	-2.4	14.9	30.9	61.2	92.3	0.0	0.4	1.4	3.4	3.1	21.0	89.0
14/04/2005	14.1	21.2	29.4	-25.8	-1.2	19.3	22.5	53.8	86.2	0.0	0.0	0.8	2.3	4.4	29.1	94.9
15/04/2005	13.4	19.9	27.3	-20.5	0.4	24.6	31.2	57.4	83.3	0.0	0.1	1.0	2.3	4.9	27.2	78.7
16/04/2005	11.9	20.1	28.8	-20.6	-1.0	14.3	21.8	56.8	90.8	0.0	0.1	1.1	3.6	5.0	28.3	90.7
17/04/2005	11.8	20.5	29.3	-23.7	-0.4	23.8	23.8	53.2	90.4	0.0	0.0	0.7	2.6	5.4	36.1	96.5
18/04/2005	15.6	23.1	30.0	-19.4	-0.1	30.9	24.9	43.5	71.8	0.0	0.0	1.5	3.1	5.5	22.7	84.8
19/04/2005	14.8	17.2	20.5	5.6	17.2	28.2	46.0	57.8	66.3	0.0	0.0	0.6	1.5	5.4	20.7	56.9
Month	7.3	19.9	31.4	-25.8	-0.9	31.4	13.4	54.3	94.1	0.0	0.0	1.5	5.6	2.7	23.8	100.8

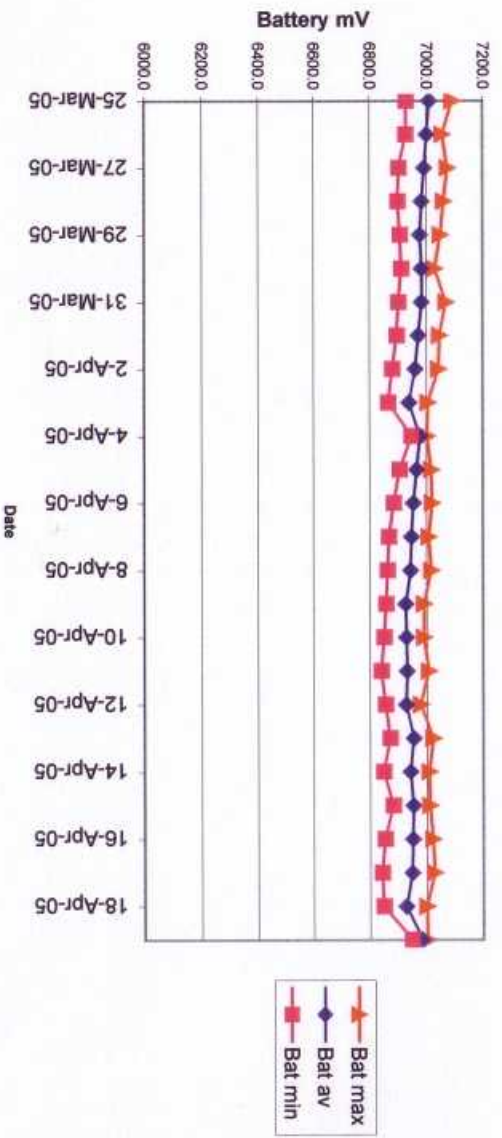
Werris Creek Weather Station Apr 2005  
Air Temperature

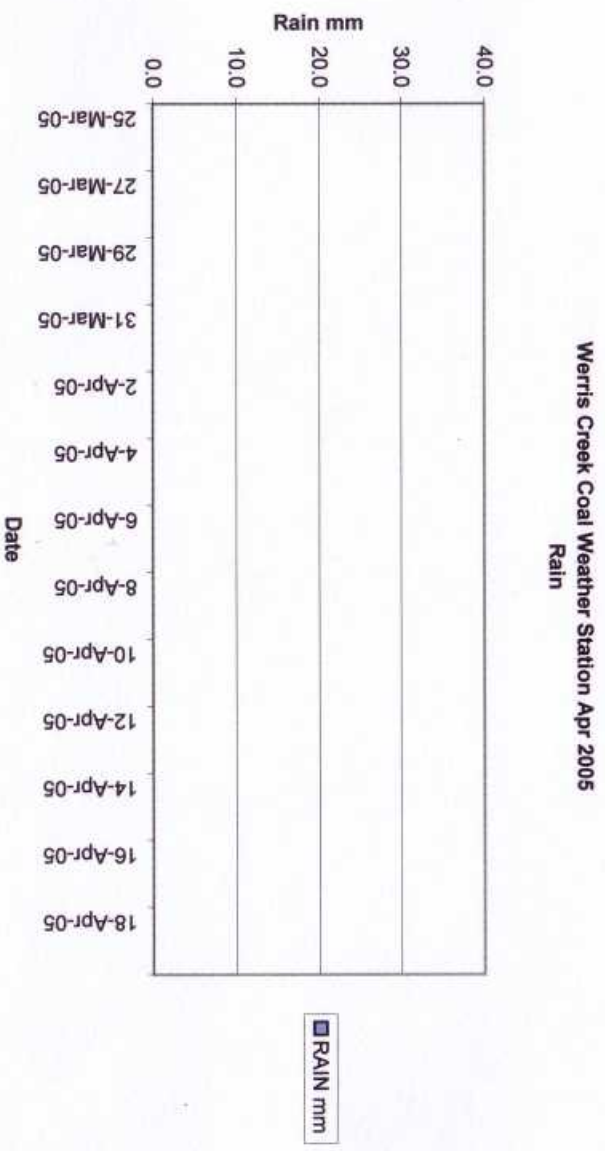
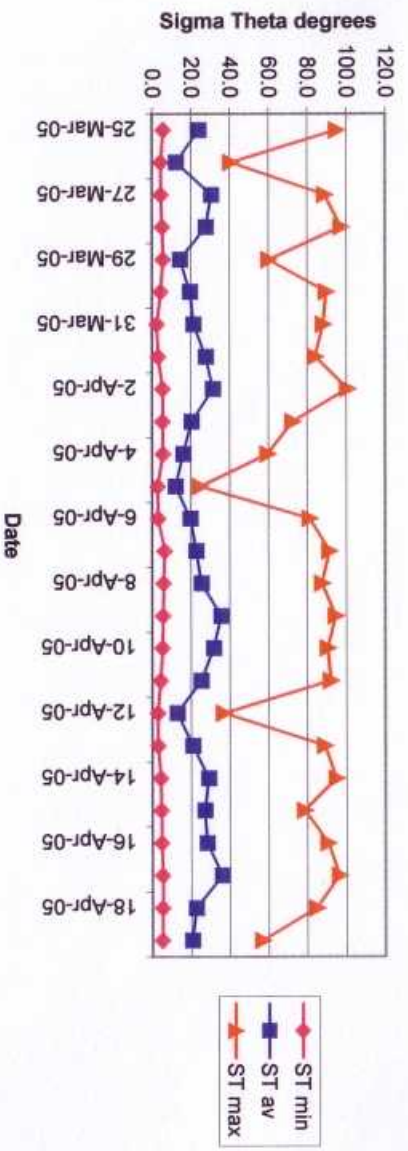
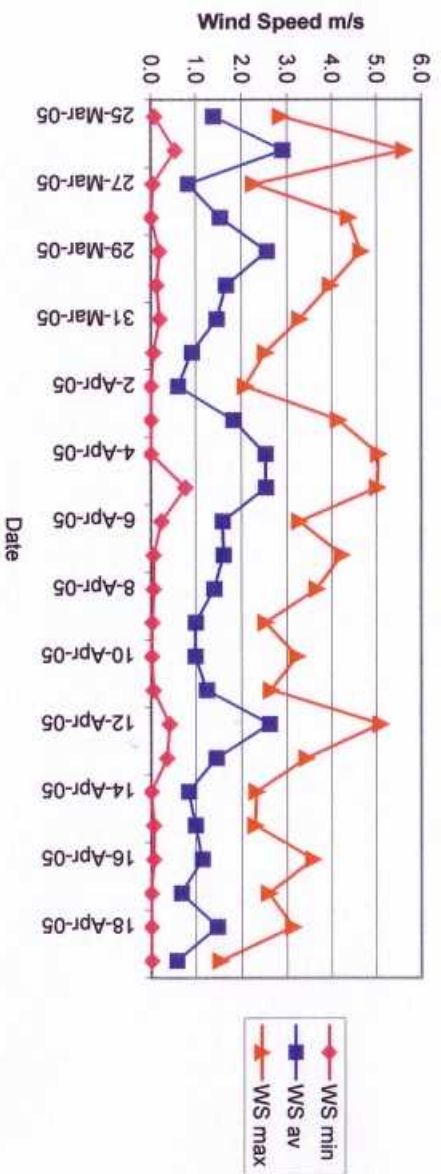


Werris Creek Coal Weather Station Apr 2005  
Humidity

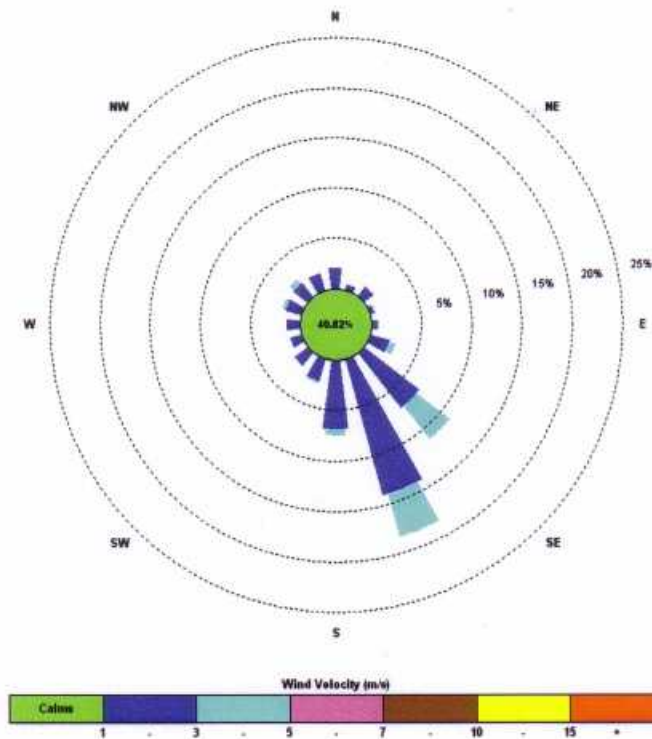


Werris Creek Coal Weather Station Apr 2005  
Battery





# MONTHLY WINDROSE SHOWING A FREQUENCY DISTRIBUTION OF WINDSPEED AND DIRECTION



**APPENDIX 1**

**LABORATORY CERTIFICATES**

**AND**

**CALIBRATION CERTIFICATES**  
**(SUPPLIED EVERY SECOND MONTH)**

# ACIRL Quality Testing Services Pty Ltd

(ABN 66 003 451 876)  
51 Darling Street, CARRINGTON, NSW 2294  
Phone : (02) 4969 4979 (02) 4961 3793  
Fax: (02) 4962 1850



**Origin:** Werris Creek

**Report :** NNW05-7918-03

Page 1 of 1

**Description :** Suspended Particulate Matter PM<sub>10</sub>- HVAS

**Date :** 26-Apr-05

**Report To :** Colin Davies - Carbon Based Enviro

**Copy to:** File

ID No.	Site	Filter	Run Date	PM10 <sup>3</sup> ug/m <sup>3</sup>
PM 10-1	Marquette	7631824	28-Mar-05	14
PM 10-2	Patterson	7631823	28-Mar-05	18
PM 10-3	Ryan	7631821	28-Mar-05	14
PM 10-4	Eurunderee	7631822	28-Mar-05	15

*Note : PM10 ug/m3 calculated to 0 Deg C and 101.3kPa  
Samples collected by Client  
Flow rates, calibrations & sample times supplied by Client  
Weather data - ex Hunter Valley Research Foundation, Maryville*

**Reported By:** D. Hafy  
MANAGER

Determined in Accordance With:  
AS3580.9.6 (Gravimetric Determination Only)



This Laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

NATA Accredited Laboratory  
No. 218

# ACIRL Quality Testing Services Pty Ltd

(ABN 66 003 451 876)  
51 Darling Street, CARRINGTON, NSW 2294  
Phone : (02) 4969 4979 (02) 4961 3793  
Fax: (02) 4962 1850



**Origin:** Werris Creek

**Report :** NNW05-7939-03

Page 1 of 2

**Description :** Suspended Particulate Matter PM<sub>10</sub> - HVAS

**Date :** 16-May-05

**Report To :** Colin Davies - Carbon Based Enviro

**Copy to:** File

ID No.	Site	Filter	Run Date	PM10 ug/m <sup>3</sup>
PM 10-1	Marquette	7631858	03-Apr-05	13
PM 10-1	Marquette	7631826	09-Apr-05	6
PM 10-1	Marquette	7631829	15-Apr-05	13
PM 10-1	Marquette	7631854	21-Apr-05	6
PM 10-2	Patterson	7631859	03-Apr-05	18
PM 10-2	Patterson	7631828	09-Apr-05	8
PM 10-2	Patterson	7631830	15-Apr-05	14
PM 10-2	Patterson	7631856	21-Apr-05	6
PM 10-3	Ryan	7631860	03-Apr-05	12
PM 10-3	Ryan	7631827	09-Apr-05	7
PM 10-3	Ryan	7631831	15-Apr-05	15
PM 10-3	Ryan	7631853	21-Apr-05	7
PM 10-4	Eurunderee	7631857	03-Apr-05	13

Note : PM10 ug/m<sup>3</sup> calculated to 0 Deg C and 101.3kPa  
Samples collected by Client  
Flow rates, calibrations & sample times supplied by Client  
Weather data - ex Hunter Valley Research Foundation, Maryville

Reported By: D. Hafy

MANAGER

Determined in Accordance With:  
AS3580.9.6 (Gravimetric Determination Only)



This Laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

NATA Accredited Laboratory  
No. 218



# ACIRL Quality Testing Services Pty Ltd

(ABN 66 003 451 876)  
51 Darling Street, CARRINGTON, NSW 2294  
Phone : (02) 4969 4979 (02) 4961 3793  
Fax: (02) 4962 1850



ACIRL QUALITY TESTING SERVICES

**Origin:** Werris Creek

**Report :** NNW05-7939-03

Page 2 of 2

**Description :** Suspended Particulate Matter PM<sub>10</sub>- HVAS

**Date :** 16-May-05

**Report To :** Colin Davies - Carbon Based Enviro

**Copy to:** File

ID No.	Site	Filter	Run Date	PM10 ug/m <sup>3</sup>
PM 10-4	Eurunderee	7631825	15-Apr-05	6
'M 10-4	Eurunderee	7631832	21-Apr-05	8

Note : PM10 ug/m<sup>3</sup> calculated to 0 Deg C and 101.3kPa  
Samples collected by Client  
Flow rates, calibrations & sample times supplied by Client  
Weather data - ex Hunter Valley Research Foundation, Maryville

Reported By: \_\_\_\_\_

*D. Hafey*

MANAGER

Determined in Accordance With:  
AS3580.9.6 (Gravimetric Determination Only)



This Laboratory is accredited by the National Association of Testing Authorities, Australia. The tests reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

NATA Accredited Laboratory  
No. 218

# CARBON BASED ENVIRONMENTAL PTY LIMITED

## HVAS CALIBRATION FORM

#1

HVAS Site: RYAN Serial No: 04-0888

Manometer No: M-300 Orifice Plate No: 300 Date Calibrated: 24/3/05

Temp deg C	$\Delta P$ mmH <sub>2</sub> O		Theoretical Flow m <sup>3</sup> /hr	Displayed Flow on machine
	Full	Half <i>Display</i>		
25	118	59 59	60	60
	161	80 80	70	70
	210	105 104	80	90

Runtime Meter: 18

Time : 12:15 PM

RUN Machine @ 68 on display

Telstra : 12:15 PM OK 49.

Calibrated according to AS2724.3-1984

Performed By: *CDM*

Date: 24-3-05

Next Due: May 05

# CARBON BASED ENVIRONMENTAL PTY LIMITED

## HVAS CALIBRATION FORM

#2 ~~Wanganui~~ Erundersee

HVAS Site: Wanganui Serial No: 04-0878

Manometer No: M-300 Orifice Plate No: 200 Date Calibrated: 24-3-05

Temp deg C	$\Delta P$ mmH <sub>2</sub> O			Theoretical Flow m <sup>3</sup> /hr	Displayed Flow on machine
	Full	Half	Display		
25°C	118	59	59	60	60
	161	80	80	70	70
	210	105	103	80	80

Runtime Meter: 4

Time 11:20 AM  
Telika 11:20 AM OK w/.

RUN Machine @ 68 on display

Calibrated according to AS2724.3-1984

Performed By: [Signature]

Date: 24-3-05

Next Due: May 05

# CARBON BASED ENVIRONMENTAL PTY LIMITED

## HVAS CALIBRATION FORM

Patterson

HVAS Site: #3      Serial No: 04-0889  
 Manometer No: 300      Orifice Plate No: 300      Date Calibrated: 24-3-05

Temp deg C	$\Delta P$ mmH <sub>2</sub> O		Theoretical Flow m <sup>3</sup> /hr	Displayed Flow on machine
	Full	Half		
25°C	118	59	60	60
	161	80	70	70
	210	105	80	80

Runtime Meter: 4

Time 10:35 AM

RUN Machine @ 68 on display

Telstr 10:35 AM OK UY

Calibrated according to AS2724.3-1984

Performed By: GLH

Date: 24-3-05

Next Due: MAY 05

# CARBON BASED ENVIRONMENTAL PTY LIMITED

## HVAS CALIBRATION FORM

Marquette's.

HVAS Site: #4 Serial No: 04-0885  
 Manometer No: 300 Orifice Plate No: 300 Date Calibrated: 24-3-05

Temp deg C	$\Delta P$ mmH <sub>2</sub> O		Theoretical Flow m <sup>3</sup> /hr	Displayed Flow on machine
	Full	Half		
25°C	118	59	60	60
	161	80	70	70
	210	105	80	80

Runtime Meter: 5

Time 1:12 PM

RUN Machine @ 68 on display

Teliban 1:12 PM OK

Calibrated according to AS2724.3-1984

Performed By: C. Daniel

Date: 24-3-05

Next Due: MAY 05



**Werris Creek Coal Mine Community Consultative  
Committee**

**10:00am 13<sup>th</sup> October 2005 Tour of Werris Creek Coal followed by  
Committee Meeting at Quirindi RSL**

The Chairman Cr Ron Short welcomed members and invited guests to the visit of Werris Creek Coal, organized by Ray Robinson. The committee and invited guests then proceeded on a bus tour of the mine site.

The inspection included the following:

1. Oversight of initial excavation operations
2. Inspection of the approved access road (under construction) and location of Main Road intersection
3. Inspection of clean/dirty water system
4. Office site and workshop area
5. Crushing area and process and run-of-mine site
6. Coal loader and access road
7. Escott Road upgrade

Participants returned to the Quirindi RSL where they were invited to raise any questions resulting from the inspection.

At the conclusion of the session, the Chairman thanked those in attendance for the interest and participation.

The participants included Consultative Committee members and invited guests Noel & Wendy Taylor, John Cowley, Ron Blackwell, Ross Turnbull, Rodney & Anne Hogan.

Apologies for non attendance were received from Jim & Kathy Marshall, Chris Holley, and Tony Ryan.

**Minutes of the Meeting of the Werris Creek Coal Mine Community Consultative  
Committee held at Quirindi RSL 13<sup>th</sup> October 1005 at 1:00pm**

**Present** Ron Short, Ray Robinson, Kay Neal, John Tynan, Bob Corbett, Mike Lomax, Rebecca Tralaggan

**Apologies** Tony Ryan and Chris Holley

Moved Mike Lomax seconded Kay Neal that the apologies be accepted

**Minutes** Moved Ray Robinson seconded Mike Lomax that the Minutes of the Committee on the 23<sup>rd</sup> July 2005 be accepted as an accurate record of the business conducted.

**General Business**

Bob Corbett reported that guidelines for the operation of Consultative Committees were being developed and had been the subject of a meeting in Singleton a copy of which was tabled for information.

Kay Neal raised a question concerning employment at the mine. The Committee was advised that the engagement process was initially conducted by Roche Mining office in Brisbane.

Ray Robinson presented a verbal report on the number and range of complaints received and of the actions taken. One incident of noise exceedence was reported and was the subject of a report to the Department of Planning. John Tynan explained some of the complexities of blast design being experienced at the mine due to variations in geology. The Chairman advised that under certain conditions, operations noise could be heard at Lower Quipolly on the Kamilaroi Highway.

Bob Corbett explained how temperature inversion could impact on noise transfer and how on-site measuring equipment helped avoiding significant inversion events.

Ray Robinson further reported that:

- a) copies of blast monitoring details would be supplied to the Committee
- b) a compliance inspection had been carried out by the Department of Planning and that the Main Road intersection and bunding of a small fuel storage area required action.
- c) An application for extension of the consent for intersection construction had been lodged with the Department of Planning
- d) The complaint (referred to by Kay Neal) that coal had been taken by road to Tamworth would be investigated and report submitted to Committee
- e) The 15 m high bund was completed and that hours of operation had been approved to 10:00pm commencing on or about 17<sup>th</sup> October 2005. Ray Robinson also advised that improvements to the bund wall with top dressing and grass planting would proceed over the next 3-4 months.

Meeting closed 2:46pm

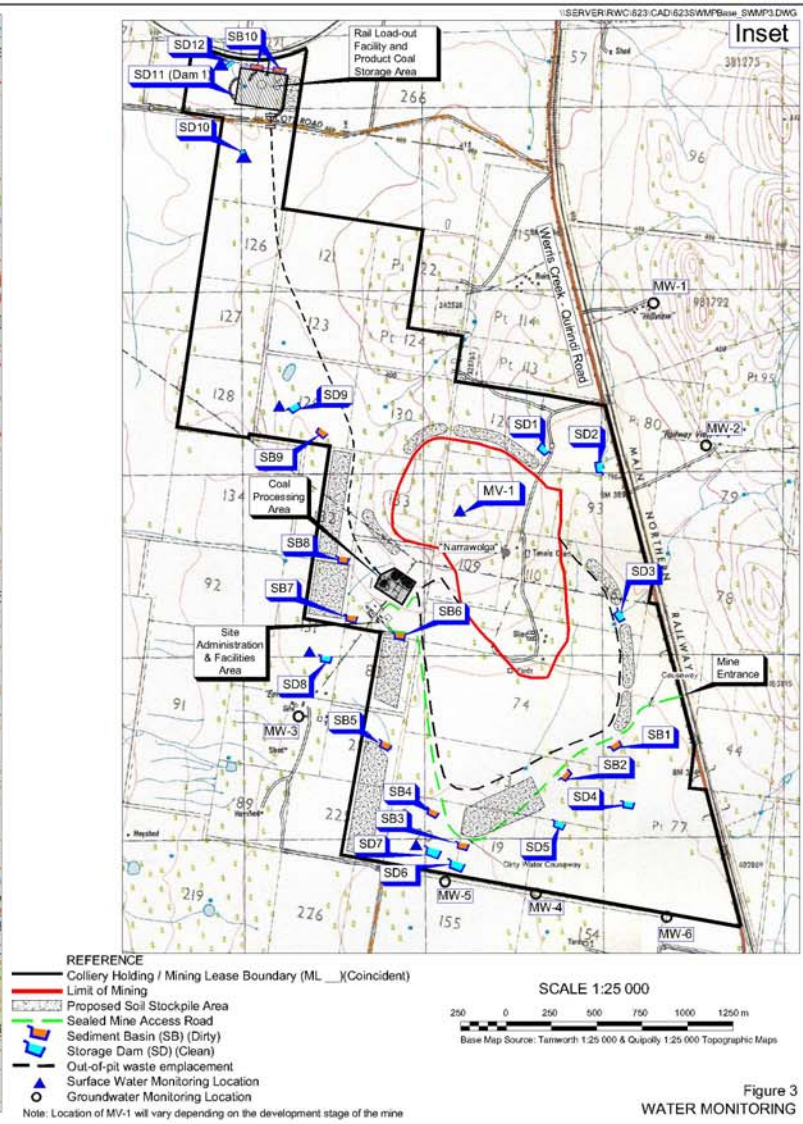
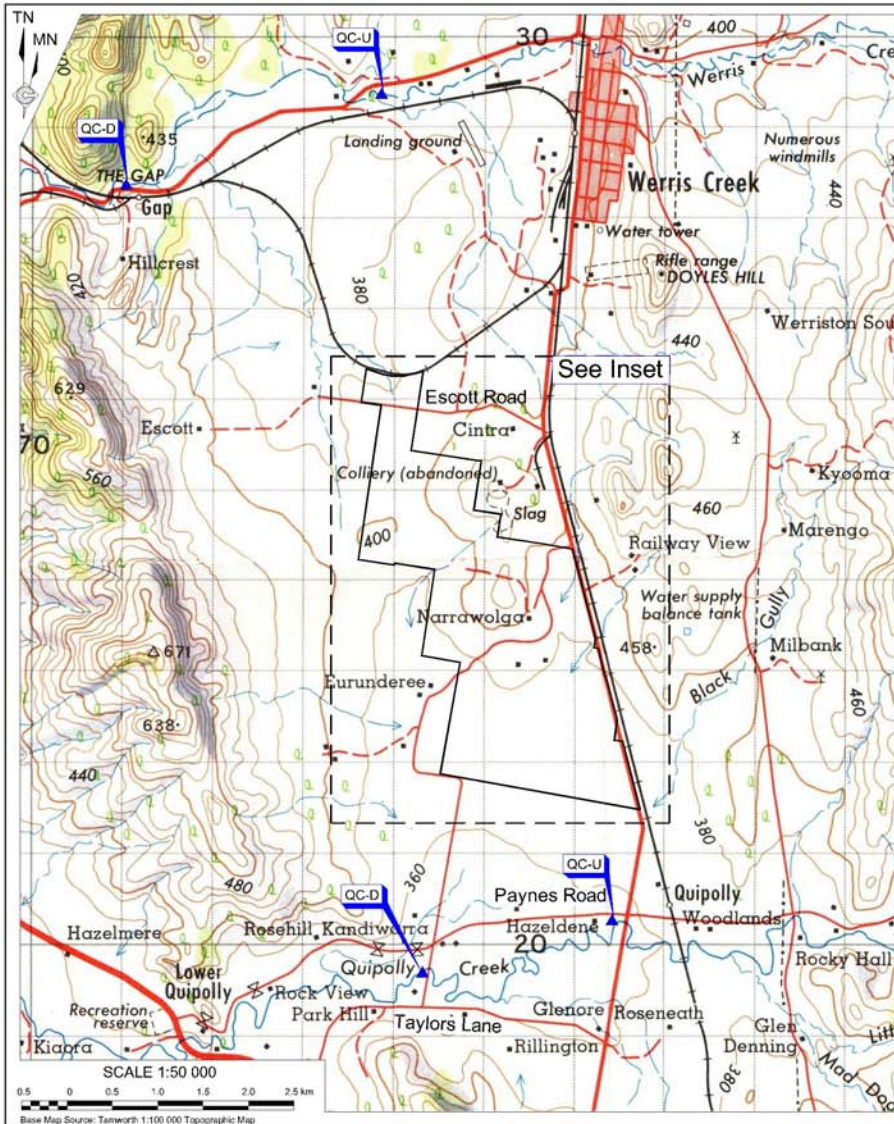
An aerial photograph showing a coal mine site in the foreground, a residential community in the middle ground, and agricultural fields in the background. The mine site includes several large buildings, a parking lot with many vehicles, and a road. The community consists of numerous houses and streets. The background features green fields and some hills.

**Werris Creek Coal Mine**

**Community  
Consultative  
Committee**

13 October 2005





# Water Management



# *Water Management*



*Looking SW*



# *Water Management*



*Zuirindi Werris Creek Road*



# *Water Management*



*Looking SE*



## *Milestones*

- *First coal produced – 03/08/05*
- *Stage 1 crushing plant completed*
- *Coal haul road tar sealed – 17/08/05*
- *Roche office facilities completed*



## *Milestones*

- *Train loading bin completed*
- *First train despatched – 01/09/05*
- *Hitachi 1900 excavator commissioned*
- *Roche workshop facilities near complete*



# *Personnel*

## **Werris Creek Coal**

### **Crushing, hauling & train loading**

**Tamworth 4**

**Curlewis 2**

**Quirindi 1**

**Werris Creek 1**

### **Casuals**

**Werris Creek 2**



# *Personnel*

## **Roche Mining**

### **Mining Operations**

<b>Employees at 23 Jun 05</b>	<b>New Recruits</b>	<b>Total</b>	
<b>Tamworth</b>	<b>3</b>	<b>2</b>	<b>5</b>
<b>Quirindi</b>	<b>4</b>	<b>5</b>	<b>9</b>
<b>Werris Creek</b>	<b>2</b>	<b>2</b>	<b>4</b>
<b>Gunnedah</b>	<b>3</b>	<b>-</b>	<b>3</b>
<b>Other</b>	<b>3</b>	<b>2</b>	<b>5</b>





# *Complaints / Inquiries*



# *Complaints*

*01 Bore Water Level Dropping*

*02 Highly Turbid Water During Rain*

*03 Blast 29/07/2005*

*04 Blast 29/07/2005*

*05 Blast 29/07/2005*

*06 Noise reported to EPA*



# *Blast Overpressure Exceedance*

*Reported to EPA 21/09/05*

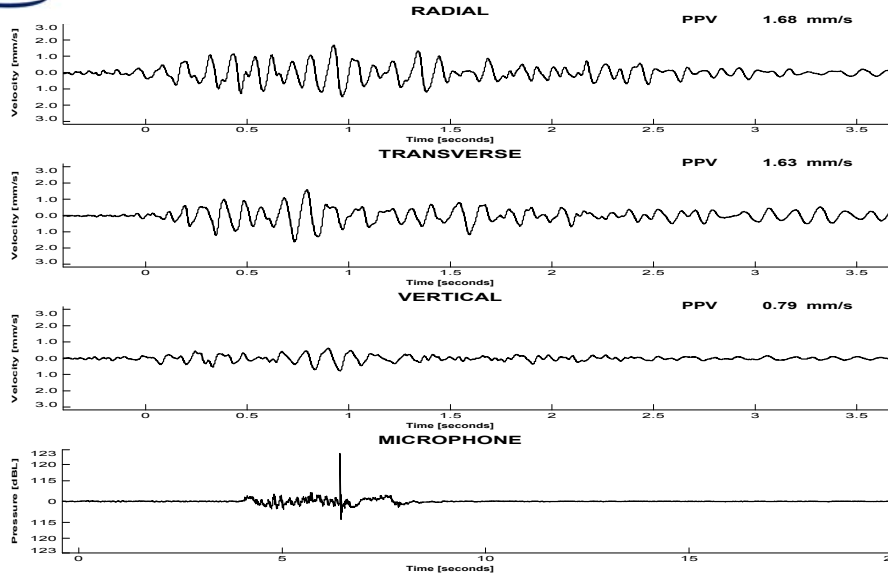


# Werris Creek

13:49:07  
21 Sep 2005

Monitor Location:  
Blast No/Id:

Hillview  
WC 15 & WC16



## Blast Overpressure

21 Sep 2005

Blast overpressure criteria:

Less than 115dBL 95% of blasts

Not to exceed 120dBL

### BLAST SUMMARY

Pattern Type	: Staggered	Max. Inst. Charge	: 420 kgs
Pattern Size (m)	: 6 x 7.5mtrs	Explosive (Type & Weight)	a)
Designed Tonnage	: 61,563 kgs		b) AnFO at .8
Bench Height (m)	: 10 - 20 mtrs		c) .
Number of Rows	: 17	Delay Type - Electronic	
Number of Holes	: 218	- Average Interval (ms):	10ms
Blasthole Dia. (mm)	: 200mm	- Duration (ms)	: 2170ms
Stemming (m)	: 4mtrs		
Sub Drill	: 0		

**Peak Vector Sum Velocity** : **1.81 mm/s**  
**Peak Overpressure** : **122.3 dBL**

Comments & Observations

.  
. .  
.

Monitoring conducted by: .....Jim Drane....Roche Blasting Services.....  
**Roche Blasting Services**

Checked by: .....

TM Serial Number: 3041

Last Calibration: 08 Apr 2005

EL:4.0 Werris Creek\WC Standard.rtf

Werris Creek\Hillview\Hillview - 2005-09-21 13.49.07 - 1.twf

*Blast Monitoring*



*Dept of Planning*

*Compliance Inspection*

*22/09/05*



# *Dept of Planning*

## *Section 96 (1a) Application*

*Request to vary the Consent to allow a  
further 3 months to complete the new access  
road*



# *Monitoring Results*



- *Blast Monitoring*
- *Deposited Dust*
- *PM10 Dust Concentration*
- *Water Bore Testing*
- *Noise Modelling*





# The Future

- *Acoustic bund completion – 14/10/05*
- *Extension of production hours to 10 pm*  
*– On completion of bund – 17/10/05*
- *Access road completion – 31/01/06*
- *Noise model validation approved - ??*



**THANK YOU**



**Next Meeting:**