

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
Site Information
EPL No.: 12290

EPA Website Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31280&SYSUID=1&LICID=12290>
Licensee: Werris Creek Coal Pty Limited

Premises: Werris Creek Coal, 1435 Werris Creek Road, WERRIS CREEK NSW 2341

EPL Monitoring Points: See figure at end of document

Sampling Period: MARCH 2023

Obtained Date: 20/04/2023

Publication Date: 20/04/2023

Table 1 - No Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
28	PM10	µg/m ³	Every 6 days	5	30/03/2023	18/04/2023	5.2	9.0	8.2	14.8
	Solid Particles	g/m ² /month	Continuous	1	20/03/2023	30/03/2023	0.1	0.1	0.1	0.1
29	PM10	µg/m ³	Every 6 days	5	30/03/2023	18/04/2023	6.1	10.2	7.8	16.5
	Solid Particles	g/m ² /month	Continuous	1	20/03/2023	30/03/2023	0.7	0.7	0.7	0.7
30	PM10	µg/m ³	Continuous	Continuous	31/03/2023	01/04/2023	4.4	13.4	13	21.2
	Solid Particles	g/m ² /month	Continuous	1	20/03/2023	30/03/2023	0.3	0.3	0.3	0.3
10	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
12	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-



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14	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
32	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	pH	pH	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
23	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	µS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
24	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Conductivity	µS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-

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	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
25	Conductivity	µS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
26	Conductivity	µS/cm	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
33	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-

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	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
Vanadium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-	
Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-	
34	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-	

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	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-	
35	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Beryllium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	BOD	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
Magnesium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-	

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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Selenium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Sodium	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Vanadium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-

¹NS – No sample.

Table 2 - Pollutant Limits Apply

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of samples for the Month	Date Sampled	Date Obtained	Min Value	Max Value	100%ile Limit	Exceedance (Yes/No)	Comments
10	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
12	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	

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14	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
32	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 1	0*	-	-	-	-	9	No	
33^	Electrical Conductivity	µS/cm	Special Frequency 4	1	03/03/2023	31/03/2023	1985	1985	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	1	23/02/2023	06/03/2023	<5	<5	10	No	
	pH	pH	Special Frequency 4	1	03/03/2023	31/03/2023	8.2	8.2	9	No	
34	Electrical Conductivity	µS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 4	0*	-	-	-	-	9	No	
35	Electrical Conductivity	µS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	pH	pH	Special Frequency 4	0*	-	-	-	-	9	No	

~ Total Suspended Solids permitted to exceed 50mg/L if 5 day rainfall is greater than 39.2mm prior to discharge

^ EPL ID Point 33 is the point of discharge for discharge sampling

*No Special Frequency Events occurred during Sampling Period, therefore no data has been collected.

- For the purposes of this condition, Special Frequency 1 means as soon as practicable after overflow commences and in any case not more than 12 hours after any overflow commencing.
- For the purposes of this condition, Special Frequency 2 means within 12 hours after any overflow from a storage dam(s) on the premises occurring.
- For the purposes of this condition, Special Frequency 3 means every three months. If no mine void water is planned to be provided for agricultural purposes within the three months following scheduled sampling, then sampling is not required.



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- For the purposes of this condition, Special Frequency 4 means prior to, but not more than 24 hours prior to providing mine void water for agricultural purposes and then weekly thereafter, until the provision of water ceases. Samples are only required to be taken from the void water dam that is supplying water for agricultural purposes.

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Table 3 – Monitoring (Quarterly & 6 monthly – no limits apply)

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
16	Conductivity	µS/cm	Every 3 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	pH	pH	Every 3 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0*	-	-	-	-	-	-
27	Conductivity	µS/cm	Every 3 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	pH	pH	Every 3 Months	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0*	-	-	-	-	-	-
17	Conductivity	µS/cm	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry
	Nitrate	mg/L	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry
	Nitrogen (Total)	mg/L	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry
	pH	pH	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry
	Phosphorus (Total)	mg/L	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry
	Reactive Phosphorus	mg/L	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry

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EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurements for the Period	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Standing Water Level	Metres	Every 6 Months	0	07/03/2023	07/03/2023	Dry	Dry	Dry	Dry
18	Conductivity	µS/cm	Every 6 Months	1	07/03/2023	31/03/2023	887	887	887	887
	Nitrate	mg/L	Every 6 Months	1	07/03/2023	31/03/2023	0.32	0.32	0.32	0.32
	Nitrogen (Total)	mg/L	Every 6 Months	1	07/03/2023	31/03/2023	0.5	0.5	0.5	0.5
	pH	pH	Every 6 Months	1	07/03/2023	31/03/2023	8.04	8.04	8.04	8.04
	Phosphorus (Total)	mg/L	Every 6 Months	1	07/03/2023	31/03/2023	0.09	0.09	0.09	0.09
	Reactive Phosphorus	mg/L	Every 6 Months	1	07/03/2023	31/03/2023	0.06	0.06	0.06	0.06
	Standing Water Level	Metres	Every 6 Months	1	07/03/2023	31/03/2023	33.96	33.96	33.96	33.96
19	Conductivity	µS/cm	Every 6 Months	1	06/03/2023	31/03/2023	2400	2400	2400	2400
	Nitrate	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	11.6	11.6	11.6	11.6
	Nitrogen (Total)	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	13.6	13.6	13.6	13.6
	pH	pH	Every 6 Months	1	06/03/2023	31/03/2023	7.8	7.8	7.8	7.8
	Phosphorus (Total)	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	0.06	0.06	0.06	0.06
	Reactive Phosphorus	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	0.04	0.04	0.04	0.04
	Standing Water Level	Metres	Every 6 Months	1	06/03/2023	31/03/2023	14.93	14.93	14.93	14.93
20	Conductivity	µS/cm	Every 6 Months	1	06/03/2023	31/03/2023	1000	1000	1000	1000
	Nitrate	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	1.51	1.51	1.51	1.51
	Nitrogen (Total)	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	1.8	1.8	1.8	1.8
	pH	pH	Every 6 Months	1	06/03/2023	31/03/2023	7.94	7.94	7.94	7.94
	Phosphorus (Total)	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	0.17	0.17	0.17	0.17
	Reactive Phosphorus	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	0.16	0.16	0.16	0.16
	Standing Water Level	Metres	Every 6 Months	1	06/03/2023	31/03/2023	13.2	13.2	13.2	13.2
21	Conductivity	µS/cm	Every 6 Months	1	06/03/2023	31/03/2023	1910	1910	1910	1910
	Nitrate	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	2.2	2.2	2.2	2.2
	Nitrogen (Total)	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	2.7	2.7	2.7	2.7
	pH	pH	Every 6 Months	1	06/03/2023	31/03/2023	8	8	8	8
	Phosphorus (Total)	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	0.23	0.23	0.23	0.23

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	Reactive Phosphorus	mg/L	Every 6 Months	1	06/03/2023	31/03/2023	0.2	0.2	0.2	0.2
	Standing Water Level	Metres	Every 6 Months	1	06/03/2023	31/03/2023	7.6	7.6	7.6	7.6
22	Conductivity	µS/cm	Every 6 Months	1	02/03/2023	31/03/2023	1720	1720	1720	1720
	Nitrate	mg/L	Every 6 Months	1	02/03/2023	31/03/2023	4.07	4.07	4.07	4.07
	Nitrogen (Total)	mg/L	Every 6 Months	1	02/03/2023	31/03/2023	4.6	4.6	4.6	4.6
	pH	pH	Every 6 Months	1	02/03/2023	31/03/2023	7.85	7.85	7.85	7.85
	Phosphorus (Total)	mg/L	Every 6 Months	1	02/03/2023	31/03/2023	0.11	0.11	0.11	0.11
	Reactive Phosphorus	mg/L	Every 6 Months	1	02/03/2023	31/03/2023	0.06	0.06	0.06	0.06
	Standing Water Level	Metres	Every 6 Months	1	02/03/2023	31/03/2023	13.59	13.59	13.59	13.59

TLTS – too low to sample

*This reporting period does not include measurements for the 6 monthly or 3 monthly monitoring as they did not occur in this period. These will be reported in their relevant periods.

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

Table 4 – Monitoring (Noise – Limits Apply)

Location	Date	Measurement Period	Start Time	Measured levels – dB(A)		Limit(s)	Weather (Inversion °C/100m & / Wind m/s / Wind Direction °)	Observations	(Potential) Non-compliance /breach	Date Obtained
				LA1, 1 Minute	LAeq, 15 Minute					
R24	27 March 2023	60 minutes	3:06pm	N/A	51	Day 37	2.0 / 026	Traffic (51), insects (36), WCC (<20)	No	14/04/2023
R12	27 March 2023	60 minutes	2:02pm	N/A	40	Day 38	2.2 / 052	Traffic (37), birds (36), insects (29), WCC (<20)	No	14/04/2023
R96	27 March 2023	60 minutes	4:15pm	N/A	42	Day 38	2.1 / 248	Insects (42), birds (31), WCC (<20)	No	14/04/2023
R98	27 March 2023	60 minutes	4:39pm	N/A	40	Day 35	3.1 / 134	Birds (38), frogs (34), dog (28), insects (25), WCC (<20)	No	14/04/2023
R57	27 March 2023	60 minutes	12:52pm	N/A	45	Day 35	3.6 / 011	Insects (44), birds (34), traffic (30), WCC (<20)	No	14/04/2023
R24	27 March 2023	60 minutes	8:01pm	<20	50	Night 37	Lapse / 2.9 / 008	Insects (50), traffic (38), frogs (27), WCC (<20)	No	14/04/2023
R12	28 March 2023	60 minutes	12:02am	<20	38	Night 38	Lapse / 1.2 / 351	Insects (36), traffic (32), frogs (25), WCC (<20)	No	14/04/2023
R96	27 March 2023	60 minutes	10:50pm	<20	44	Night 37	Lapse / 1.0 / 194	Insects (44), frogs (27), WCC (<20)	No	14/04/2023
R98	27 March 2023	60 minutes	9:43pm	<20	43	Night 35	Lapse / 0.1 / 024	Insects (43), frogs (31), cows (24), WCC (<20)	No	14/04/2023
R57	27 March 2023	60 minutes	7:49pm	<20	47	Night 35	Lapse / 2.8 / 012	Insects (45), traffic (41), frogs (35), WCC (<20)	No	14/04/2023

NM = Not Measurable. This denotes noise from the mine was audible at low levels however cannot be quantified.

IA = Inaudible.

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

Table 5 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date Obtained
R11	Blast Noise	dB (Lin Peak)	Every Blast	6	101.0	108.8	120.0	No	01/04/2023
	Blast Vibration	mm/s	Every Blast	6	0.08	0.10	10.0	No	01/04/2023
R98	Blast Noise	dB (Lin Peak)	Every Blast	6	99.5	111.4	120.0	No	01/04/2023
	Blast Vibration	mm/s	Every Blast	6	0.68	1.12	10.0	No	01/04/2023
R62	Blast Noise	dB (Lin Peak)	Every Blast	6	99.9	106.7	120.0	No	01/04/2023
	Blast Vibration	mm/s	Every Blast	6	0.50	1.09	10.0	No	01/04/2023
R92	Blast Noise	dB (Lin Peak)	Every Blast	6	99.4	110.3	120.0	No	01/04/2023
	Blast Vibration	mm/s	Every Blast	6	0.29	0.47	10.0	No	01/04/2023

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

