

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 2022

Obtained Date: 14/04/2022

Publication Date: 14/04/2022

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	29/03/2022	13/04/2022	4.7	6.9	5.5	13.2
	Solid Particles	g/m ² /month	Continuous	1	22/03/2021	08/04/2022	0.2	0.2	0.2	0.2
29	PM10	µg/m ³	Every 6 days	5	29/03/2022	13/04/2022	4.1	10.3	8.4	19.6
	Solid Particles	g/m ² /month	Continuous	1	22/03/2021	08/04/2022	0.1	0.1	0.1	0.1
30	PM10	µg/m ³	Continuous	Continuous	31/03/2022	01/04/2022	2.3	7.3	6.7	18.6
	Solid Particles	g/m ² /month	Continuous	1	22/03/2021	08/04/2022	0.1	0.9	0.9	0.9
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*	-	-	-	-	-	-
14	Conductivity	µS/cm	Special Frequency 1	0*	-	-	-	-	-	-



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	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	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	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*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-

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	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	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*	-	-	-	-	-	-
	pH	pH	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
33*	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	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*	-	-	-	-	-	-

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	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-	
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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-	



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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
	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*	-	-	-	-	-	-

*NR (EPL ID 28, 29 and 30) = sample contaminated with high level of organic matter (insects, vegetation, bird droppings, etc)

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)
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
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	mg/L	Special Frequency 4	0*	-	-	-	-	2000	No
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No

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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)
	pH	pH	Special Frequency 4	0*	-	-	-	-	9	No
34	Electrical Conductivity	mg/L	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	mg/L	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.
- 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.

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
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	10/03/2022	18/03/2022	DRY	DRY	DRY	DRY
	Nitrate	mg/L	Every 6 Months	0	10/03/2022	18/03/2022	DRY	DRY	DRY	DRY
	Nitrogen (Total)	mg/L	Every 6 Months	0	10/03/2022	18/03/2022	DRY	DRY	DRY	DRY
	pH	pH	Every 6 Months	0	10/03/2022	18/03/2022	DRY	DRY	DRY	DRY
	Phosphorus (Total)	mg/L	Every 6 Months	0	10/03/2022	18/03/2022	DRY	DRY	DRY	DRY
	Reactive Phosphorus	mg/L	Every 6 Months	0	10/03/2022	18/03/2022	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	10/03/2022	18/03/2022	DRY	DRY	DRY	DRY
18	Conductivity	µS/cm	Every 6 Months	1	10/03/2022	18/02/2022	378	378	378	378
	Nitrate	mg/L	Every 6 Months	1	10/03/2022	18/02/2022	0.57	0.57	0.57	0.57
	Nitrogen (Total)	mg/L	Every 6 Months	1	10/03/2022	18/02/2022	0.8	0.8	0.8	0.8
	pH	pH	Every 6 Months	1	10/03/2022	18/02/2022	7.33	7.33	7.33	7.33
	Phosphorus (Total)	mg/L	Every 6 Months	1	10/03/2022	18/02/2022	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Every 6 Months	1	10/03/2022	18/02/2022	<0.01	<0.01	<0.01	<0.01
	Standing Water Level	Metres	Every 6 Months	1	10/03/2022	18/02/2022	33.18	33.18	33.18	33.18
19	Conductivity	µS/cm	Every 6 Months	1	15/03/2022	23/03/2022	2160	2160	2160	2160
	Nitrate	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	10.8	10.8	10.8	10.8
	Nitrogen (Total)	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	12.8	12.8	12.8	12.8
	pH	pH	Every 6 Months	1	15/03/2022	23/03/2022	7.81	7.81	7.81	7.81
	Phosphorus (Total)	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	0.07	0.07	0.07	0.07
	Reactive Phosphorus	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	<0.01	<0.01	<0.01	<0.01
	Standing Water Level	Metres	Every 6 Months	1	15/03/2022	23/03/2022	17.6	17.6	17.6	17.6
20	Conductivity	µS/cm	Every 6 Months	1	15/03/2022	23/03/2022	1040	1040	1040	1040
	Nitrate	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	3.5	3.5	3.5	3.5
	Nitrogen (Total)	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	3.8	3.8	3.8	3.8
	pH	pH	Every 6 Months	1	15/03/2022	23/03/2022	8.2	8.2	8.2	8.2
	Phosphorus (Total)	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	0.1	0.1	0.1	0.1
	Reactive Phosphorus	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	0.09	0.09	0.09	0.09
	Standing Water Level	Metres	Every 6 Months	1	15/03/2022	23/03/2022	16.56	16.56	16.56	16.56
21	Conductivity	µS/cm	Every 6 Months	1	15/03/2022	23/03/2022	1930	1930	1930	1930
	Nitrate	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	1.12	1.12	1.12	1.12
	Nitrogen (Total)	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	1.1	1.1	1.1	1.1
	pH	pH	Every 6 Months	1	15/03/2022	23/03/2022	8.05	8.05	8.05	8.05
	Phosphorus (Total)	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	0.05	0.05	0.05	0.05

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	Reactive Phosphorus	mg/L	Every 6 Months	1	15/03/2022	23/03/2022	0.04	0.04	0.04	0.04
	Standing Water Level	Metres	Every 6 Months	1	15/03/2022	23/03/2022	9.73	9.73	9.73	9.73
22	Conductivity	µS/cm	Every 6 Months	1	09/03/2022	18/03/2022	1740	1740	1740	1740
	Nitrate	mg/L	Every 6 Months	1	09/03/2022	18/03/2022	3.86	3.86	3.86	3.86
	Nitrogen (Total)	mg/L	Every 6 Months	1	09/03/2022	18/03/2022	10.1	10.1	10.1	10.1
	pH	pH	Every 6 Months	1	09/03/2022	18/03/2022	7.67	7.67	7.67	7.67
	Phosphorus (Total)	mg/L	Every 6 Months	1	09/03/2022	18/03/2022	0.59	0.59	0.59	0.59
	Reactive Phosphorus	mg/L	Every 6 Months	1	09/03/2022	18/03/2022	0.38	0.38	0.38	0.38
	Standing Water Level	Metres	Every 6 Months	1	09/03/2022	18/03/2022	15.2	15.2	15.2	15.2

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	24 March 2022	60 minutes	12:57 pm	N/A	45	Day 37	6.0 / 293	Traffic (44), birds (36), insects (31), train (24), WCC (<20)	No	14/04/2022
R12	24 March 2022	60 minutes	4:23 pm	N/A	48	Day 38	4.8 / 154	Train (47), traffic (39), insects (36) birds (30), WCC (<20)	No	14/04/2022
R96	24 March 2022	60 minutes	12:48 pm	N/A	49	Day 38	4.1 / 304	Traffic (49), insects (37), birds (28), WCC (21)	No	14/04/2022
R98	24 March 2022	60 minutes	1:53 pm	N/A	46	Day 35	4.0 / 294	Insects (45), birds (38), WCC (22)	No	14/04/2022
R57	24 March 2022	60 minutes	4:18 pm	N/A	50	Day 35	5.5 / 187	Traffic (49), dogs (36), insects (36), birds (35), WCC (<20)	No	14/04/2022
R24	24 March 2022	60 minutes	8:43 pm	<20	65	Night 37	Lapse / 1.5 / 198	Traffic (65), insects (35), train (31), frogs (24), WCC (<20)	No	14/04/2022
R12	24 March 2022	60 minutes	10:46 pm	<20	42	Night 38	Lapse / 2.0 / 180	Insects (42), traffic (27), frogs (21), WCC (<20)	No	14/04/2022
R96	24 March 2022	60 minutes	8:00 pm	<20	47	Night 37	Lapse / 2.2 / 333	Insects (47), birds (23), frogs (21), WCC (<20)	No	14/04/2022
R98	24 March 2022	60 minutes	9:02 pm	<20	54	Night 35	Lapse / 1.7 / 193	Insects (54), dogs (28), frogs (24), WCC (<20)	No	14/04/2022
R57	24 March 2022	60 minutes	11:37 pm	<20	53	Night 35	Lapse / 0.5 / 195	Insects (51), traffic (48), trains (34), frogs (31), WCC (<20)	No	14/04/2022

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	8	94.1	101.5	120.0	No	01/04/2022
	Blast Vibration	mm/s	Every Blast	8	0.08	0.17	10.0	No	01/03/2022
R98	Blast Noise	dB (Lin Peak)	Every Blast	8	99.3	108.0	120.0	No	01/03/2022
	Blast Vibration	mm/s	Every Blast	8	0.68	1.81	10.0	No	01/03/2022
R62	Blast Noise	dB (Lin Peak)	Every Blast	8	102.3	106.3	120.0	No	01/03/2022
	Blast Vibration	mm/s	Every Blast	8	0.36	0.52	10.0	No	01/03/2022
R92	Blast Noise	dB (Lin Peak)	Every Blast	8	96.4	104.1	120.0	No	01/03/2022
	Blast Vibration	mm/s	Every Blast	8	0.26	0.44	10.0	No	01/03/2022

