



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: January 2018

Obtained Date: 27/2/2018

Publication Date: 27/2/2018

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	19/1/2018	1/2/2018	2.8	11.3	12.3	16.0
	Solid Particles	g/m ² /month	Continuous	1	23/1/2018	1/2/2018	0.7	0.7	0.7	0.7
29	PM10	µg/m ³	Every 6 days	5	19/1/2018	1/2/2018	7.2	18.6	20.3	28.0
	Solid Particles	g/m ² /month	Continuous	1	23/1/2018	1/2/2018	1.2	1.2	1.2	1.2
30	PM10	µg/m ³	Continuous	Continuous	31/1/2018	1/2/2018	6.6	15.5	14.1	31.9
	Solid Particles	g/m ² /month	Continuous	1	23/1/2018	1/2/2018	0.5	0.5	0.5	0.5
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	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0	-	-	-	-	-	-



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	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	-	-	-	-	-	-
24	Reactive Phosphorus	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	-	-	-	-	-	-
Reactive Phosphorus	mg/L	Special Frequency 2	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 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	-	-	-	-	-	-
	Total Suspended Solids	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	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0	-	-	-	-	-	-
33*	Aluminium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.10	0.10	0.10	0.10
	Arsenic (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.002	0.002	0.002	0.002
	Barium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.136	0.136	0.136	0.136
	Beryllium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	BOD	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	3	3	3	3
	Cadmium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.0001	<0.0001	<0.0001	<0.0001
	Chromium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	Cobalt (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001

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	Cooper (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.052	0.052	0.052	0.052
	Iron (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.11	0.11	0.11	0.11
	Lead (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.003	0.003	0.003	0.003
	Magnesium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	27	27	27	27
	Manganese (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.025	0.025	0.025	0.025
	Nickel (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.002	0.002	0.002	0.002
	Potassium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	14	14	14	14
	Selenium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	163	163	163	163
	Total dissolved solids	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	904	904	904	904
	Vanadium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.01	<0.01	<0.01	<0.01
Zinc (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.048	0.048	0.048	0.048	
34	Aluminium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.07	0.07	0.07	0.07
	Arsenic (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.002	0.002	0.002	0.002
	Barium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.112	0.112	0.112	0.112
	Beryllium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	BOD	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	3	3	3	3
	Cadmium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.0001	<0.0001	<0.0001	<0.0001
	Chromium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	Cobalt (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	Cooper (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.017	0.017	0.017	0.017
	Iron (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.06	0.06	0.06	0.06
	Lead (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.001	0.001	0.001	0.001
	Magnesium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	26	26	26	26
	Manganese (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.144	0.144	0.144	0.144
	Nickel (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.001	0.001	0.001	0.001

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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
	Potassium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	16	16	16	16
	Selenium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	192	192	192	192
	Total dissolved solids	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	925	925	925	925
	Vanadium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.01	<0.01	<0.01	<0.01
	Zinc (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.024	0.024	0.024	0.024
35	Aluminium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.12	0.12	0.12	0.12
	Arsenic (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.004	0.004	0.004	0.004
	Barium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.136	0.136	0.136	0.136
	Beryllium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	BOD	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	4	4	4	4
	Cadmium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.0001	<0.0001	<0.0001	<0.0001
	Chromium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	Cobalt (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	Cooper (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.010	0.010	0.010	0.010
	Iron (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.07	0.07	0.07	0.07
	Lead (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.001	<0.001	<0.001	<0.001
	Magnesium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	28	28	28	28
	Manganese (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.246	0.246	0.246	0.246
	Nickel (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.002	0.002	0.002	0.002
	Potassium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	16	16	16	16
	Selenium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	194	194	194	194
	Total dissolved solids	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	950	950	950	950
	Vanadium (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<0.01	<0.01	<0.01	<0.01
	Zinc (dissolved)	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	0.175	0.175	0.175	0.175

* EPL ID Point 33 is the point of discharge for offsite irrigation

WERRIS CREEK COAL EPL – MONTHLY SUMMARY
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	-	-	-	-	50*	No
	Oil and Grease	mg/L	Special Frequency 1	0	-	-	-	-	10	No
	pH	pH	Special Frequency 1	0	-	-	-	-	6.5-8.5	No
33*	Electrical Conductivity	mg/L	Special Frequency 4	3	22/1/2018	1/2/2018	1490	1590	1600	No
	Oil and Grease	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<5	<5	10	No
	pH	pH	Special Frequency 4	3	22/1/2018	1/2/2018	8.01	8.26	6.5-8.5	No
34	Electrical Conductivity	mg/L	Special Frequency 4	1	22/1/2018	1/2/2018	1630	1630	1600	No
	Oil and Grease	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<5	<5	10	No
	pH	pH	Special Frequency 4	1	22/1/2018	1/2/2018	8.02	8.02	6.5-8.5	No
35	Electrical Conductivity	mg/L	Special Frequency 4	1	22/1/2018	1/2/2018	1660	1660	1600	No
	Oil and Grease	mg/L	Special Frequency 3	1	22/1/2018	1/2/2018	<5	<5	10	No
	pH	pH	Special Frequency 4	1	22/1/2018	1/2/2018	8.17	8.17	6.5-8.5	No

* EPL ID Point 33 is the point of discharge for offsite irrigation

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	Total Suspended Solids	mg/L	Every 3 Months	0	-	-	-	-	-	-
	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	-	-	-	-	-	-
17	Reactive Phosphorus	mg/L	Every 3 Months	0	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Every 3 Months	0	-	-	-	-	-	-
	Conductivity	µS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	pH	pH	Every 6 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
18	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-
18	Conductivity	µS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-

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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
	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	pH	pH	Every 6 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-
19	Conductivity	µS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	pH	pH	Every 6 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-
20	Conductivity	µS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	pH	pH	Every 6 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-
21	Conductivity	µS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	pH	pH	Every 6 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-
22	Conductivity	µS/cm	Every 6 Months	0	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	-	-	-	-	-	-



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	Nitrogen (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	pH	pH	Every 6 Months	0	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	-	-	-	-	-	-

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 oC/100m, wind m/s & °)	Observations	(Potential) Non-compliance /breach	Date Obtained
				LA1, 1 Minute	LAeq, 15 Minute					
R24	24/1/2018	60 minutes	16:13	N/A	IA	Day 37	NA, 3.6m/s, 212 degrees.	WCCM inaudible. Birds to 45 dB, road traffic to 50 dB.	No	27/2/2018
R12	25/1/2018	60 minutes	10:26	N/A	IA	Day 38	NA, 1.0m/s, 256 degrees.	WCCM inaudible. Road traffic to 40 dB, birds/insects to 45 dB.	No	27/2/2018
R96	25/1/2018	60 minutes	11:44	N/A	25	Day 38	NA, 1.8m/s, 223 degrees	WCCM continuum 25 dB. Insects/birds to 45 dB, road traffic to 30dB, aircraft to 30 dB.	No	27/2/2018
R98	25/1/2018	60 minutes	10:23	N/A	<30	Day 36	NA, 1.8m/s, 310 degrees	WCCM continuum <30 dB. Insects/birds to 62 dB, aircraft <40dB, rural equipment, breeze.	No	27/2/2018
R24	24/1/2018	60 minutes	20:35	IA	IA	Night 37	NA, 6.0m/s, 179 degrees	WCCM inaudible. Insects to 32 dB, road traffic to 50 dB, breeze to 40 dB.	No	27/2/2018
R12	24/2/2018	60 minutes	21:03	IA	IA	Night 38	NA, 6.5m/s, 172 degrees	WCCM inaudible. Train up to 63 dB, road traffic to 40 dB, insects to 45 dB.	No	27/2/2018
R96	24/1/2018	60 minutes	21:32	IA	IA	Night 38	NA, 6.4m/s, 161 degrees	WCCM inaudible. Road traffic to 40 dB, insects to 30 dB, breeze to 30 dB.	No	27/2/2018
R98	24/1/2018	60 minutes	21:22	IA	IA	Night 38	NA, 7.0m/s, 165 degrees	WCCM inaudible. Breeze up to 35 dB, insects/birds up to 60 dB, aircraft to 40 dB, road traffic to 40 dB, pigs to 35 dB.	No	27/2/2018

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	10	97.6	108.5	120.0	No	1/02/2018
	Blast Vibration	mm/s	Every Blast	10	0.17	0.36	10.0	No	1/02/2018
R98	Blast Noise	dB (Lin Peak)	Every Blast	10	98.6	108.3	120.0	No	1/02/2018
	Blast Vibration	mm/s	Every Blast	10	1.00	1.32	10.0	No	1/02/2018
R62	Blast Noise	dB (Lin Peak)	Every Blast	10	99.6	105.3	120.0	No	1/02/2018
	Blast Vibration	mm/s	Every Blast	10	0.42	0.68	10.0	No	1/02/2018
R92	Blast Noise	dB (Lin Peak)	Every Blast	10	98.0	107.9	120.0	No	1/02/2018
	Blast Vibration	mm/s	Every Blast	10	0.32	0.55	10.0	No	1/02/2018



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