

## 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:** April 2019

**Obtained Date:** 28<sup>th</sup> May 2019

**Publication Date:** 7 June 2019

**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 <sup>3</sup>	Every 6 days	5	26/4/2019	23/5/2019	2.1	12.9	16.4	24.0
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	18/4/2019	3/5/2019	0.8	0.8	0.8	0.8
29	PM10	µg/m <sup>3</sup>	Every 6 days	5	26/4/2019	23/5/2019	11.4	27.5	21.2	46.5
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	18/4/2019	3/5/2019	1.2	1.2	1.2	1.2
30	PM10	µg/m <sup>3</sup>	Continuous	Continuous	30/4/2019	1/5/2019	6.4	15.1	14.4	28.1
	Solid Particles	g/m <sup>2</sup> /month	Continuous	1	18/4/2019	3/5/2019	0.8	0.8	0.8	0.8
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	-	-	-	-	-	-
	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	-	-	-	-	-	-
	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	-	-	-	-	-	-
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	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0	-	-	-	-	-	-
33*	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	-	-	-	-	-	-
	Chromium (dissolved)	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
	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	-	-	-	-	-	-
34	Zinc (dissolved)	mg/L	Special Frequency 3	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	-	-	-	-	-	-
	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	mg/L	Special Frequency 3	0	-	-	-	-	-	-

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	(dissolved)									
	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	-	-	-	-	-	-
	Total dissolved solids	mg/L	Special Frequency 3	0	-	-	-	-	-	-

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	Vanadium (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-

\*Dust gauge sample contaminated with glass. Broken funnel noted on field sheet.

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

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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)
	Oil and Grease	mg/L	Special Frequency 3	0	-	-	-	-	10	No
	pH	pH	Special Frequency 4	0	-	-	-	-	9	No

\* EPL ID Point 33 is the point of discharge for discharge sampling

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	-	-	-	-	-	-
	Total Suspended Solids	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	-	-	-	-	-	-
	Total Suspended	mg/L	Every 3 Months	0	-	-	-	-	-	-

**WERRIS CREEK COAL EPL – MONTHLY SUMMARY**

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
	<b>Solids</b>									
<b>17</b>	<b>Conductivity</b>	<b>µS/cm</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrate</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrogen (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>pH</b>	<b>pH</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Phosphorus (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Reactive Phosphorus</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Standing Water Level</b>	<b>Metres</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
<b>18</b>	<b>Conductivity</b>	<b>µS/cm</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrate</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrogen (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>pH</b>	<b>pH</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Phosphorus (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Reactive Phosphorus</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Standing Water Level</b>	<b>Metres</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
<b>19</b>	<b>Conductivity</b>	<b>µS/cm</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrate</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrogen (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>pH</b>	<b>pH</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Phosphorus (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Reactive Phosphorus</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Standing Water Level</b>	<b>Metres</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
<b>20</b>	<b>Conductivity</b>	<b>µS/cm</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrate</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Nitrogen (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>pH</b>	<b>pH</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Phosphorus (Total)</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-
	<b>Reactive Phosphorus</b>	<b>mg/L</b>	<b>Every 6 Months</b>	0	-	-	-	-	-	-



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	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	-	-	-	-	-	-
	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	-	-	-	-	-	-

TLTS - Too low to sample

**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					
<b>R24</b>	17-18/4/2019	60 minutes	1:37 pm	N/A	42	Day 37	NA, 1.9m/s, 163 degrees	Cars (37), wind (36), birds (35), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R12</b>	17-18/4/2019	60 minutes	12:41 pm	N/A	60	Day 38	NA, 2.1m/s, 172 degrees	Train (60), traffic (36), wind (34), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R96</b>	17-18/4/2019	60 minutes	1:47 pm	N/A	38	Day 38	NA, 1.9m/s, 163 degrees	Plane (33), birds (32), traffic (32), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R98</b>	17-18/4/2019	60 minutes	2:54 pm	N/A	42	Day 36	NA, 2.5m/s, 180 degrees	Domestic (41), birds (32), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R57</b>	17-18/4/2019	60 minutes	10:35 am	N/A	46	Day 35	NA, 1.2m/s, 177 degrees	Traffic (44), birds (34), plane (33), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R24</b>	17-18/4/2019	60 minutes	9:03 pm	<20	44	Night 37	+2.9 °/100m, 2.0m/s, 183 degrees	Traffic (44), insects (29), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R12</b>	17-18/4/2019	60 minutes	10:04 pm	<20	62	Night 38	+2.5 °/100m, 1.6m/s, 164 degrees	Train (62), traffic (40), insects (27), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R96</b>	17-18/4/2019	60 minutes	7:14 pm	<20	27	Night 38	-0.4 °/100m, 2.5m/s, 154 degrees	Plane (22), traffic (21), birds (21), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R98</b>	17-18/4/2019	60 minutes	8:09 pm	<20	24	Night 38	+0.4 °/100m, 2.0m/s, 163 degrees	Insects (21), plane (20), <b>WCC (&lt;20)</b>	No	28/5/2019
<b>R57</b>	17-18/4/2019	60 minutes	10:00 pm	<20	32	Night 35	+4.4 °/100m, 1.0m/s, 79 degrees	Traffic (31), insects (23), <b>WCC (&lt;20)</b>	No	28/5/2019

**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	11	98.9	105.5	120.0	No	1/5/2019
	Blast Vibration	mm/s	Every Blast	11	0.09	0.15	10.0	No	1/5/2019
R98	Blast Noise	dB (Lin Peak)	Every Blast	11	100.2	108.8	120.0	No	1/5/2019
	Blast Vibration	mm/s	Every Blast	11	0.51	0.83	10.0	No	1/5/2019
R62	Blast Noise	dB (Lin Peak)	Every Blast	11	102.3	111.8	120.0	No	1/5/2019
	Blast Vibration	mm/s	Every Blast	11	0.30	0.57	10.0	No	1/5/2019
R92	Blast Noise	dB (Lin Peak)	Every Blast	11	101.3	109.1	120.0	No	1/5/2019
	Blast Vibration	mm/s	Every Blast	11	0.19	0.33	10.0	No	1/5/2019

## WERRIS CREEK COAL EPL – MONTHLY SUMMARY

