

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: May 2020

Obtained Date: 15th June 2020

Publication Date: 23rd June 2020

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	26/05/2020	11/06/2020	2.0	4.0	3.6	6.5
	Solid Particles	g/m ² /month	Continuous	1	21/05/2020	03/06/2020	0.4	0.4	0.4	0.4
29	PM10	µg/m ³	Every 6 days	5	26/05/2020	11/06/2020	1.8	8.3	7.6	17.1
	Solid Particles	g/m ² /month	Continuous	1	21/05/2020	03/06/2020	0.8	0.8	0.8	0.8
30	PM10	µg/m ³	Continuous	Continuous	31/05/2020	1/06/2020	8.3	12.5	12.0	25.6
	Solid Particles	g/m ² /month	Continuous	1	21/05/2020	03/06/2020	0.4	0.4	0.4	0.4
10	Conductivity	µS/cm	Special Frequency 1	1	18/05/2020	26/05/2020	420	420	420	420
	Nitrate	mg/L	Special Frequency 1	1	18/05/2020	26/05/2020	<0.1	<0.1	<0.1	<0.1
	Nitrogen (Total)	mg/L	Special Frequency 1	1	18/05/2020	26/05/2020	0.2	0.2	0.2	0.2
	Phosphorus (Total)	mg/L	Special Frequency 1	1	18/05/2020	26/05/2020	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Special Frequency 1	1	18/05/2020	26/05/2020	0.02	0.02	0.02	0.02
12	Conductivity	µS/cm	Special Frequency 1	1	15/05/2020	26/05/2020	590	590	590	590
	Nitrate	mg/L	Special Frequency 1	1	15/05/2020	26/05/2020	4.7	4.7	4.7	4.7
	Nitrogen (Total)	mg/L	Special Frequency 1	1	15/05/2020	26/05/2020	5	5	5	5
	Phosphorus (Total)	mg/L	Special Frequency 1	1	15/05/2020	26/05/2020	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Special Frequency 1	1	15/05/2020	26/05/2020	0.02	0.02	0.02	0.02
14	Conductivity	µS/cm	Special Frequency 1	0	-	-	-	-	-	-



WERRIS CREEK COAL EPL – MONTHLY SUMMARY

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

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

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
	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	-	-	-	-	-	-

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

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
	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	-	-	-	-	-	-	

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

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	-	-	-	-	-	-

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

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	-	-	-	-	-	-

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	1	18/05/2020	26/05/2020	5	5	50*	No
	Oil and Grease	mg/L	Special Frequency 1	1	18/05/2020	26/05/2020	<5	<5	10	No
	pH	pH	Special Frequency 1	1	18/05/2020	26/05/2020	8.1	8.1	6.5-8.5	No
12	Total Suspended Solids	mg/L	Special Frequency 1	1	15/05/2020	26/05/2020	2	2	50	No
	Oil and Grease	mg/L	Special Frequency 1	1	15/05/2020	26/05/2020	<5	<5	10	No
	pH	pH	Special Frequency 1	1	15/05/2020	26/05/2020	8.4	8.4	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

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

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

*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

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	1	25/05/2020	02/06/2020-	1180	1180	1180	1180
	Nitrate	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	1.62	1.62	1.62	1.62
	Nitrogen (Total)	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	2	2	2	2
	Oil and Grease	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<5	<5	<5	<5
	pH	pH	Every 3 Months	1	25/05/2020	02/06/2020-	8.04	8.04	8.04	8.04
	Phosphorus (Total)	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<0.01	<0.01	<0.01	<0.01
	Reactive Phosphorus	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<0.01	<0.01	<0.01	<0.01
	Total Suspended Solids	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<5	<5	<5	<5
27	Conductivity	µS/cm	Every 3 Months	1	25/05/2020	02/06/2020-	1340	1340	1340	1340
	Nitrate	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	1.54	1.54	1.54	1.54
	Nitrogen (Total)	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	1.8	1.8	1.8	1.8
	Oil and Grease	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<5	<5	<5	<5
	pH	pH	Every 3 Months	1	25/05/2020	02/06/2020-	7.99	7.99	7.99	7.99
	Phosphorus (Total)	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<0.01	<0.01	<0.01	<0.01
	Reactive Phosphorus	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<0.01	<0.01	<0.01	<0.01

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
	Total Suspended Solids	mg/L	Every 3 Months	1	25/05/2020	02/06/2020-	<5	<5	<5	<5
17	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
18	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
19	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
20	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	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
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
21	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	0	-	-	-	-	-
22	Standing Water Level	Metres	Every 6 Months	0	0	-	-	-	-	-
	Conductivity	µS/cm	Every 6 Months	0	0	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	pH	pH	Every 6 Months	0	0	-	-	-	-	-
	Phosphorus (Total)	mg/L	Every 6 Months	0	0	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0	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					
R24	11 May 2020	60 minutes	10:16am	N/A	41	Day 37	3.5m/s, 167 degrees	Traffic (38), birds (37), dog (32), WCC (<20)	No	15/06/2020
R12	11 May 2020	60 minutes	11:24am	N/A	40	Day 38	3.7m/s, 145 degrees	Birds (38), traffic (34), WCC (<20)	No	15/06/2020
R96	11 May 2020	60 minutes	12:50pm	N/A	34	Day 38	2.9m/s, 162 degrees	Insects (31), traffic (29), WCC (<20)	No	15/06/2020
R98	11 May 2020	60 minutes	1:38pm	N/A	43	Day 36	2.9m/s, 183 degrees	Birds (42), residential (37), WCC (21)	No	15/06/2020
R57	11 May 2020	60 minutes	3:30pm	N/A	54	Day 35	4.3m/s, 178 degrees	Traffic (53), residential (46), birds (44), WCC (<20)	No	15/06/2020
R24	11 May 2020	60 minutes	7:11pm	<20	48	Night 37	Lapse, 2.6m/s, 170 degrees	Traffic (47), trains (40), birds (33), WCC (<20)	No	15/06/2020
R12	11 May 2020	60 minutes	8:17pm	<20	26	Night 38	+1.5, 2.2m/s, 143 degrees	Cow (24), trains (20), WCC (<20)	No	15/06/2020
R96	11 May 2020	60 minutes	9:26pm	<20	41	Night 38	+2.5, 1.1m/s, 100 degrees	Birds (39), traffic (35), trains (28), WCC (<20)	No	15/06/2020
R98	11 May 2020	60 minutes	10:31pm	<20	28	Night 38	+2.0, 2.1m/s, 127 degrees	Birds (25), insects (22), residential (21), WCC (<20)	No	15/06/2020
R57	12 May 2020	60 minutes	12:28am	<20	46	Night 35	+3.8, 1.9m/s, 137 degrees	Traffic (45), industrial (39), WCC (<20)	No	15/06/2020

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	7	100.0	104.8	120.0	No	01/06/2020
	Blast Vibration	mm/s	Every Blast	7	0.15	0.33	10.0	No	01/05/2020
R98	Blast Noise	dB (Lin Peak)	Every Blast	7	100.0	102.5	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	7	0.91	1.90	10.0	No	01/05/2020
R62	Blast Noise	dB (Lin Peak)	Every Blast	7	102.3	109.6	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	7	0.42	0.62	10.0	No	01/05/2020
R92	Blast Noise	dB (Lin Peak)	Every Blast	7	100.6	103.3	120.0	No	01/05/2020
	Blast Vibration	mm/s	Every Blast	7	0.29	0.52	10.0	No	01/05/2020

WERRIS CREEK COAL EPL – MONTHLY SUMMARY

