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: August 2018
Obtained Date: 4 September 2018
Publication Date: 10 September 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/m³	Every 6 days	5	23/8/2018	31/8/2018	13.9	20.9	16.3	35.5
	Solid Particles	g/m²/month	Continuous	1	22/8/2018	30/8/2018	1.0	1.0	1.0	1.0
29	PM10	µg/m³	Every 6 days	5	23/8/2018	31/8/2018	12.6	26.3	26.5	35.0
	Solid Particles	g/m²/month	Continuous	1	22/8/2018	30/8/2018	1.3	1.3	1.3	1.3
30	PM10	µg/m³	Continuous	Continuous	23/8/2018	1/9/2018	6.3	17.7	13.5	73.4
	Solid Particles	g/m²/month	Continuous	1	22/8/2018	30/8/2018	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	-	-	-	-	-	-

WHITEHAVEN COAL

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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
	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	-	-	-	-	-	-
	Total Suspended Solids	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	-	-	-	-	-	-
	Total Suspended Solids	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	-	-	-	-	-	-
	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	23/8/2018	0.03	0.03	0.03	0.03	0.03
	Arsenic (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	0.001	0.001	0.001	0.001	0.001
	Barium (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	0.088	0.088	0.088	0.088	0.088
	Beryllium (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.001	<0.001	<0.001	<0.001	<0.001
	BOD	mg/L	Special Frequency 3	1	23/8/2018	<2	<2	<2	<2	<2
	Cadmium (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Chromium (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.001	<0.001	<0.001	<0.001	<0.001
	Cobalt (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.001	<0.001	<0.001	<0.001	<0.001

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	Copper (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.001	<0.001	<0.001	<0.001	<0.001
	Iron (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.05	<0.05	<0.05	<0.05	<0.05
	Lead (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.001	<0.001	<0.001	<0.001	<0.001
	Magnesium	mg/L	Special Frequency 3	1	23/8/2018	18	18	18	18	18
	Manganese (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	0.008	0.008	0.008	0.008	0.008
	Nickel (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.001	<0.001	<0.001	<0.001	<0.001
	Potassium	mg/L	Special Frequency 3	1	23/8/2018	11	11	11	11	11
	Selenium (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.01	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	Special Frequency 3	1	23/8/2018	144	144	144	144	144
	Total dissolved solids	mg/L	Special Frequency 3	1	23/8/2018	808	808	808	808	808
	Vanadium (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.01	<0.01	<0.01	<0.01	<0.01
	Zinc (dissolved)	mg/L	Special Frequency 3	1	23/8/2018	<0.005	<0.005	<0.005	<0.005	<0.005
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	-	-	-	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0	-	-	-	-	-	-

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	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	-	-	-	-	-	-
	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.

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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	1					2000	No
	Oil and Grease	mg/L	Special Frequency 3	1					10	No
	pH	pH	Special Frequency 4	1					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

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

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	1	23/8/2018	3/9/2018	1360	1360	1360	1360
	Nitrate	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	1.87	1.87	1.87	1.87
	Nitrogen (Total)	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	2.3	2.3	2.3	2.3
	Oil and Grease	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<5	<5	<5	<5
	pH	pH	Every 3 Months	1	23/8/2018	3/9/2018	8.09	8.09	8.09	8.09
	Phosphorus (Total)	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<0.01	<0.01	<0.01	<0.01
	Reactive Phosphorus	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<0.01	<0.01	<0.01	<0.01
	Total Suspended Solids	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<5	<5	<5	<5
27	Conductivity	µS/cm	Every 3 Months	1	23/8/2018	3/9/2018	1280	1280	1280	1280
	Nitrate	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	2.12	2.12	2.12	2.12
	Nitrogen (Total)	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	2.5	2.5	2.5	2.5
	Oil and Grease	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<5	<5	<5	<5
	pH	pH	Every 3 Months	1	23/8/2018	3/9/2018	8.07	8.07	8.07	8.07
	Phosphorus (Total)	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<0.01	<0.01	<0.01	<0.01
	Reactive Phosphorus	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<0.01	<0.01	<0.01	<0.01
	Total Suspended Solids	mg/L	Every 3 Months	1	23/8/2018	3/9/2018	<5	<5	<5	<5
17	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	-	-	-	-	-	-
18	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	-	-	-	-	-	-
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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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	-	-	-	-	-	-

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	9/8/2018	60 minutes	1:45pm	N/A	35	Day 37	NA, 1.6m/s, 229 degrees.	Traffic (33), birds (27), WCC inaudible (<20)	No	4/9/2018
R12	9/8/2018	60 minutes	4:00pm	N/A	39	Day 38	NA, 1.3m/s, 248 degrees.	Traffic (39), WCC inaudible (<20)	No	4/9/2018
R96	10/8/2018	60 minutes	8:27am	N/A	37	Day 38	NA, 2.0m/s, 322 degrees.	Birds (37), traffic (37), WCC inaudible (<20)	No	4/9/2018
R98	10/8/2018	60 minutes	9:30am	N/A	40	Day 36	NA, 3.5m/s, 340 degrees.	Birds (40), WCC inaudible (<20)	No	4/9/2018
R57	10/8/2018	60 minutes	11:26am	N/A	42	Day 35	NA, 2.9m/s, 336 degrees.	Birds (40), traffic (35), trains (34), WCC inaudible (<20)	No	4/9/2018
R24	9/8/2018	60 minutes	8:38pm	<20	45	Night 37	11.3°/100m, 0.6m/s, 160 degrees.	Traffic (45), WCC inaudible (<20)	No	4/9/2018
R12	9/8/2018	60 minutes	10:42pm	<20	26	Night 38	10.4°/100m, 0.4m/s, 246 degrees.	Traffic (26), WCC inaudible (<20)	No	4/9/2018
R96	10/8/2018	60 minutes	7:33pm	<20	38	Night 38	10.5°/100m, 1.4m/s, 130 degrees.	Traffic (37), WCC (30)	No	4/9/2018
R98	10/8/2018	60 minutes	8:38pm	<20	26	Night 38	11.3°/100m, 0.6m/s, 160 degrees.	Traffic (26), WCC inaudible (<20)	No	4/9/2018
R57	10/8/2018	60 minutes	10:35pm	<20	41	Night 35	10.4°/100m, 0.4m/s, 246 degrees.	Trains (40), traffic (35), WCC inaudible (<20)	No	4/9/2018

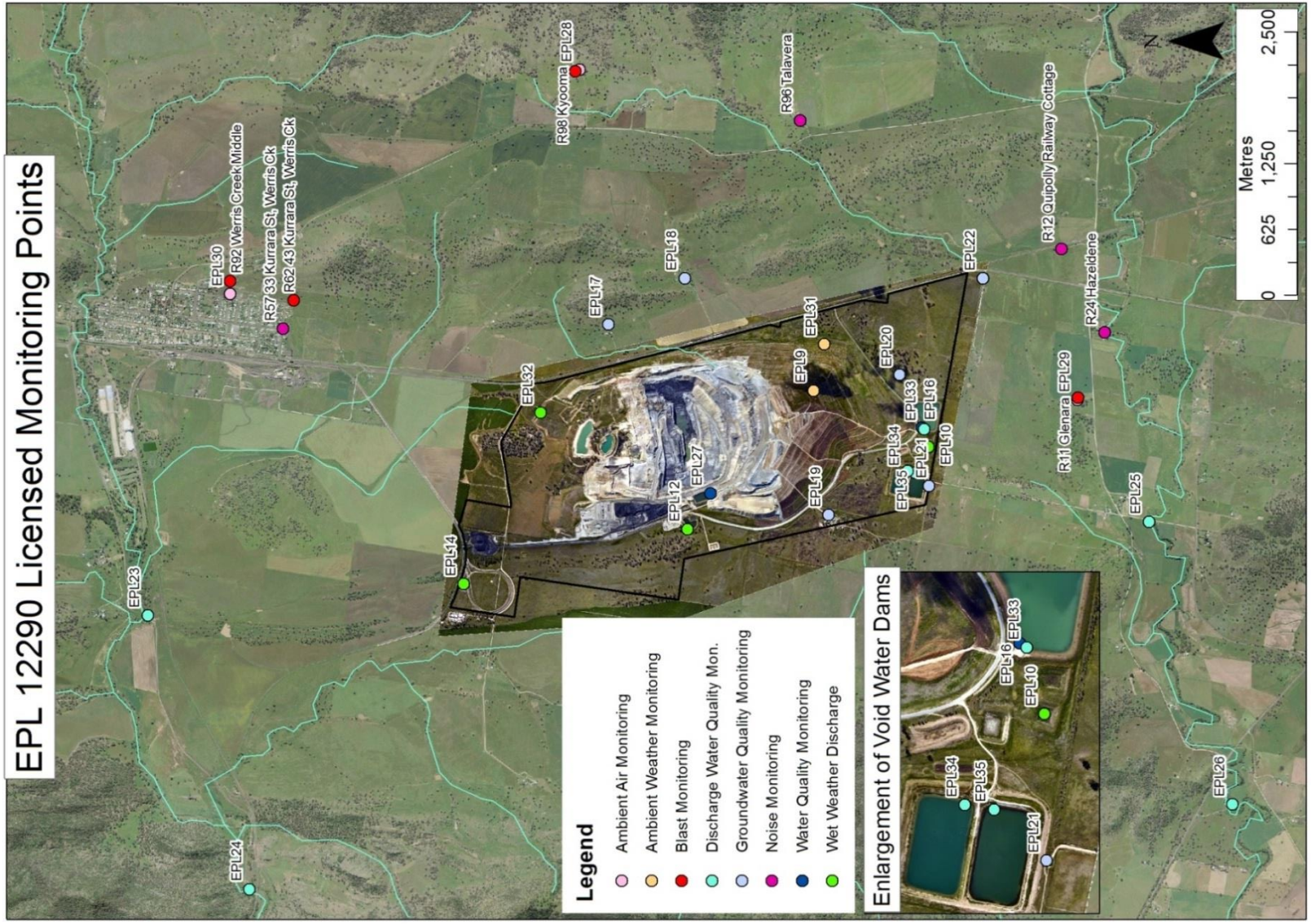
NM = Not Measurable. This denotes noise from the mine was audible at low levels however cannot be quantified.

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	15	97.97	113.10	120.0	No	1/09/2018
	Blast Vibration	mm/s	Every Blast	15	0.07	0.14	10.0	No	1/09/2018
R98	Blast Noise	dB (Lin Peak)	Every Blast	15	101.09	112.30	120.0	No	1/09/2018
	Blast Vibration	mm/s	Every Blast	15	0.43	0.98	10.0	No	1/09/2018
R62	Blast Noise	dB (Lin Peak)	Every Blast	15	99.98	114.10	120.0	No	1/09/2018
	Blast Vibration	mm/s	Every Blast	15	0.26	0.56	10.0	No	1/09/2018
R92	Blast Noise	dB (Lin Peak)	Every Blast	15	94.73	101.80	120.0	No	1/09/2018
	Blast Vibration	mm/s	Every Blast	15	0.13	0.26	10.0	No	1/09/2018


EPL 12290 Licensed Monitoring Points
Legend
Ambient Air Monitoring
Ambient Weather Monitoring
Blast Monitoring
Discharge Water Quality Mon.
Groundwater Quality Monitoring
Noise Monitoring
Water Quality Monitoring
Wet Weather Discharge
Enlargement of Void Water Dams
EPL34
EPL35
EPL21
EPL16
EPL33
EPL10
EPL30
R92 Werris Creek Middle
R57 33 Kurrara St, Werris Ck
R62 43 Kurrara St, Werris Ck
R98 Kyooma EPL28
R96 Talavera
EPL18
EPL17
EPL22
R12 Quipolly Railway Cottage
R24 Hazeldene
R11 Glenara EPL29
EPL31
EPL20
EPL33
EPL16
EPL10
EPL34
EPL21
EPL35
EPL27
EPL12
EPL19
EPL32
EPL14
EPL23
EPL24
EPL25
EPL26
N
0
625
1,250
2,500
Metres