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: July 2019
Obtained Date: 10th September 2019
Publication Date: 13th September 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/m³	Every 6 days	5	31/7/2019	12/8/2019	2.2	6.9	6.6	14.1
	Solid Particles	g/m²/month	Continuous	1	22/7/2019	31/7/2019	0.2	0.2	0.2	0.2
29	PM10	µg/m³	Every 6 days	5	31/7/2019	12/8/2019	4.6	13.0	11.8	25.6
	Solid Particles	g/m²/month	Continuous	1	22/7/2019	31/7/2019	0.5	0.5	0.5	0.5
30	PM10	µg/m³	Continuous	Continuous	31/7/2019	1/8/2019	2.5	9.6	8.7	17.5
	Solid Particles	g/m²/month	Continuous	1	22/7/2019	31/7/2019	0.2	0.2	0.2	0.2
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	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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	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	-	-	-	-	-	-
	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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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
	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	-	-	-	-	-	-

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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
	Solids									
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	-	-	-	-	-	-
	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	-	-	-	-	-	-

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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					
R24	25/7/2019	60 minutes	1:01 pm	N/A	51	Day 37	NA, 1.4 m/s, 206 degrees	Cars (51), **WCC (<20)**	No	10/9/2019
R12	25/7/2019	60 minutes	3:54 pm	N/A	34	Day 38	NA, 0.8 m,/s, 203 degrees	Traffic (34), insects (21), **WCC (<20)**	No	10/9/2019
R96	25/7/2019	60 minutes	1:03 pm	N/A	36	Day 38	NA, 1.4 m/s, 206 degrees	Cars (33), birds (32), **WCC (<20)**	No	10/9/2019
R98	25/7/2019	60 minutes	1:55 pm	N/A	40	Day 36	NA, 1.0 m/s, 262 degrees	Birds (39), traffic (31), **WCC (<20)**	No	10/9/2019
R57	25/7/2019	60 minutes	3:29 pm	N/A	58	Day 35	NA, 1.3 m/s, 183 degrees	Traffic (57), birds (46), plane (40), **WCC (<20)**	No	10/9/2019
R24	25/7/2019	60 minutes	7:46 pm	<20	48	Night 37	7.9°/100m, 0.6m/s, 244 degrees	Traffic (48), **WCC (<20)**	No	10/9/2019
R12	25/7/2019	60 minutes	9:42 pm	<20	64	Night 38	5.9°/100m, 0.9m/s, 311 degrees	Train (64), traffic (34), **WCC (<20)**	No	10/9/2019
R96	25/7/2019	60 minutes	7:05 pm	<20	29	Night 38	7.0° /100m, 1.3m/s, 123 degrees	Traffic (27), plane (21), **WCC (<20)**	No	10/9/2019
R98	25/7/2019	60 minutes	7:59 pm	<20	37	Night 38	5.9°/100m, 0.4m/s 208 degrees	Dog (35), traffic (30), **WCC (<20)**	No	10/9/2019
R57	25/7/2019	60 minutes	9:32 pm	32	37	Night 35	5.9°/100m, 0.9m/s, 311 degrees	Traffic (35), **WCC (28)**	No	10/9/2019

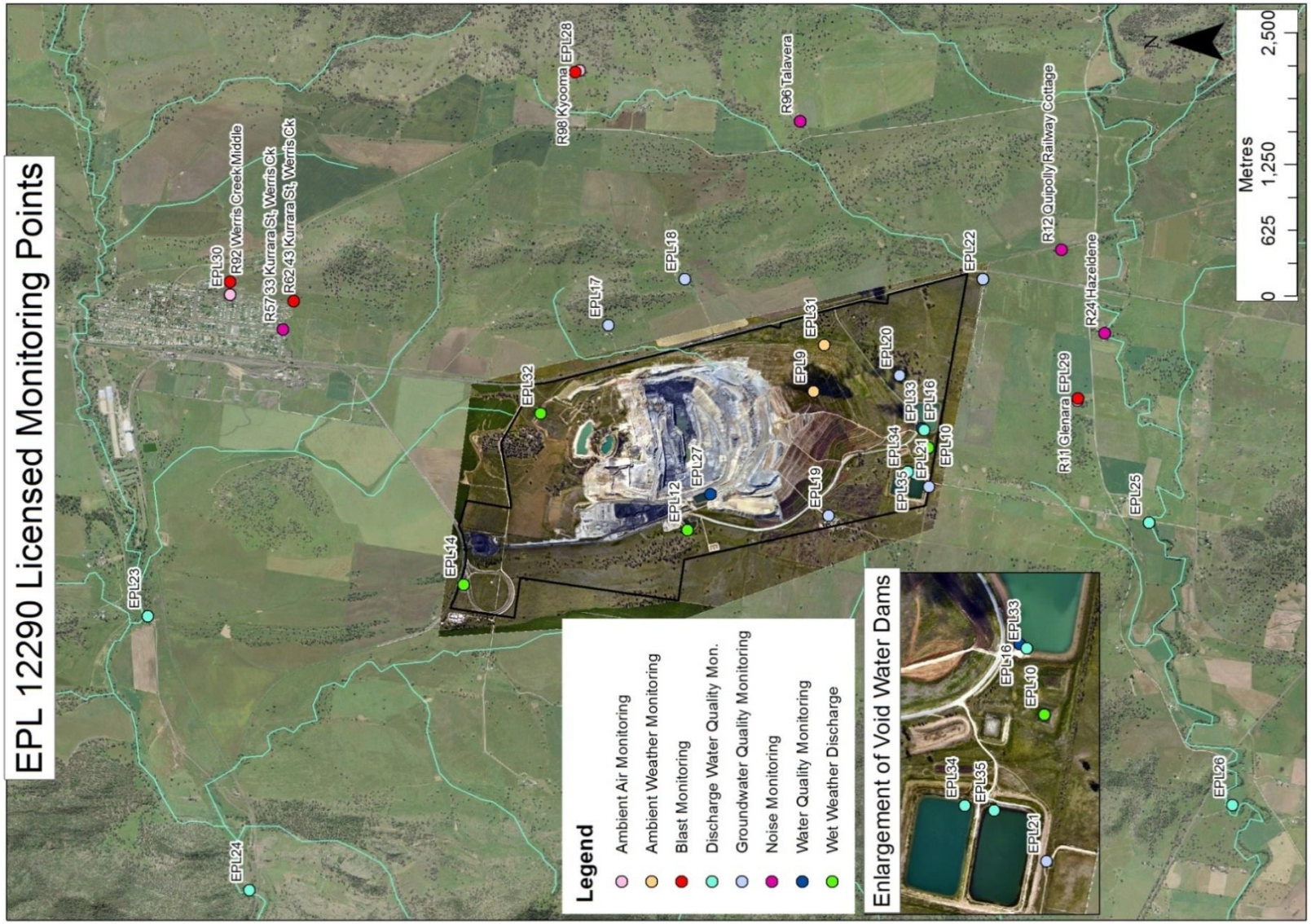
NM = Not Measurable. This denotes noise from the mine was audible at low levels however cannot be quantified.

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	12	101.3	106.0	120.0	No	10/9/2019
	Blast Vibration	mm/s	Every Blast	12	0.10	0.20	10.0	No	10/9/2019
R98	Blast Noise	dB (Lin Peak)	Every Blast	12	101.5	106.7	120.0	No	10/9/2019
	Blast Vibration	mm/s	Every Blast	12	0.58	1.08	10.0	No	10/9/2019
R62	Blast Noise	dB (Lin Peak)	Every Blast	12	103.6	115.6	120.0	No	10/9/2019
	Blast Vibration	mm/s	Every Blast	12	0.35	0.93	10.0	No	10/9/2019
R92	Blast Noise	dB (Lin Peak)	Every Blast	12	100.6	114.0	120.0	No	10/9/2019
	Blast Vibration	mm/s	Every Blast	12	0.21	0.54	10.0	No	10/9/2019


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
EPL30
R92 Werris Creek Middle
R57 33 Kurrara St, Werris Ck
R62 43 Kurrara St, Werris Ck
R86 Kyooma EPL28
R86 Talavera
R12 Quipolly Railway Cottage
R24 Hazeldene
R11 Glenara EPL29
EPL17
EPL18
EPL22
EPL31
EPL9
EPL20
EPL33
EPL16
EPL10
EPL34
EPL21
EPL35
EPL27
EPL12
EPL19
EPL32
EPL14
EPL23
EPL24
EPL25
EPL26
N
Metres
0
625
1,250
2,500