

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: SEPTEMBER 2021

Obtained Date: 29/10/2021

Publication Date: 29/10/2021

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	30/09/2021	14/10/2021	1.2	9.3	6.5	25
	Solid Particles	g/m ² /month	Continuous	1	17/09/2021	12/10/2021	1.0	1.0	1.0	1.0
29	PM10	µg/m ³	Every 6 days	5	30/09/2021	14/10/2021	3.6	10.4	11.5	20.4
	Solid Particles	g/m ² /month	Continuous	1	17/09/2021	12/10/2021	2.0	2.0	2.0	2.0
30	PM10	µg/m ³	Continuous	Continuous	30/09/2021	01/10/2021	5.2	10.4	9.5	17
	Solid Particles	g/m ² /month	Continuous	1	17/09/2021	12/10/2021	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*	-	-	-	-	-	-

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	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-

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	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*	-	-	-	-	-	-

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	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*	-	-	-	-	-	-

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	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*	-	-	-	-	-	-

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

*NR (EPL ID 28, 29 and 30) = sample contaminated with high level of organic matter (insects, vegetation, bird droppings, etc)

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*	-	-	-	-	2000	No
	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No
	pH	pH	Special Frequency 1	0*	-	-	-	-	9	No
33^	Electrical Conductivity	mg/L	Special Frequency 4	0*	-	-	-	-	2000	No
	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	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)
	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
	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

*No Special Frequency Events occurred during Sampling Period, therefore no data has been collected.

- For the purposes of this condition, Special Frequency 1 means as soon as practicable after overflow commences and in any case not more than 12 hours after any overflow commencing.
- For the purposes of this condition, Special Frequency 2 means within 12 hours after any overflow from a storage dam(s) on the premises occurring.
- For the purposes of this condition, Special Frequency 3 means every three months. If no mine void water is planned to be provided for agricultural purposes within the three months following scheduled sampling, then sampling is not required.
- For the purposes of this condition, Special Frequency 4 means prior to, but not more than 24 hours prior to providing mine void water for agricultural purposes and then weekly thereafter, until the provision of water ceases. Samples are only required to be taken from the void water dam that is supplying water for agricultural purposes.

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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	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry
	Nitrate	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry
	Nitrogen (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry
	pH	pH	Every 6 Months	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry
	Phosphorus (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry
	Reactive Phosphorus	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry

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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
	Standing Water Level	Metres	Every 6 Months	1	28/09/2021	05/10/2021	Dry	Dry	Dry	Dry
18	Conductivity	µS/cm	Every 6 Months	1	28/09/2021	05/10/2021	393	393	393	393
	Nitrate	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.43	0.43	0.43	0.43
	Nitrogen (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.5	0.5	0.5	0.5
	pH	pH	Every 6 Months	1	28/09/2021	05/10/2021	6.67	6.67	6.67	6.67
	Phosphorus (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.01	0.01	0.01	0.01
	Reactive Phosphorus	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	<0.01	<0.01	<0.01	<0.01
	Standing Water Level	Metres	Every 6 Months	1	28/09/2021	05/10/2021	49.26	49.26	49.26	49.26
19	Conductivity	µS/cm	Every 6 Months	1	28/09/2021	05/10/2021	2510	2510	2510	2510
	Nitrate	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	10.4	10.4	10.4	10.4
	Nitrogen (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	11.2	11.2	11.2	11.2
	pH	pH	Every 6 Months	1	28/09/2021	05/10/2021	7.47	7.47	7.47	7.47
	Phosphorus (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.02	0.02	0.02	0.02
	Standing Water Level	Metres	Every 6 Months	1	28/09/2021	05/10/2021	19.18	19.18	19.18	19.18
20	Conductivity	µS/cm	Every 6 Months	1	28/09/2021	05/10/2021	1050	1050	1050	1050
	Nitrate	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	3.84	3.84	3.84	3.84
	Nitrogen (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	4.4	4.4	4.4	4.4
	pH	pH	Every 6 Months	1	28/09/2021	05/10/2021	8.08	8.08	8.08	8.08
	Phosphorus (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.09	0.09	0.09	0.09
	Reactive Phosphorus	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.09	0.09	0.09	0.09
	Standing Water Level	Metres	Every 6 Months	1	28/09/2021	05/10/2021	18.62	18.62	18.62	18.62
21	Conductivity	µS/cm	Every 6 Months	1	28/09/2021	05/10/2021	2060	2060	2060	2060
	Nitrate	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.95	0.95	0.95	0.95
	Nitrogen (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	1	1	1	1
	pH	pH	Every 6 Months	1	28/09/2021	05/10/2021	7.72	7.72	7.72	7.72
	Phosphorus (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.02	0.02	0.02	0.02

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	Reactive Phosphorus	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	0.02	0.02	0.02	0.02
	Standing Water Level	Metres	Every 6 Months	1	28/09/2021	05/10/2021	11.4	11.4	11.4	11.4
22	Conductivity	µS/cm	Every 6 Months	1	28/09/2021	05/10/2021	TLTS	TLTS	TLTS	TLTS
	Nitrate	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	TLTS	TLTS	TLTS	TLTS
	Nitrogen (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	TLTS	TLTS	TLTS	TLTS
	pH	pH	Every 6 Months	1	28/09/2021	05/10/2021	TLTS	TLTS	TLTS	TLTS
	Phosphorus (Total)	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	TLTS	TLTS	TLTS	TLTS
	Reactive Phosphorus	mg/L	Every 6 Months	1	28/09/2021	05/10/2021	TLTS	TLTS	TLTS	TLTS
	Standing Water Level	Metres	Every 6 Months	1	28/09/2021	05/10/2021	16.21	16.21	16.21	16.21

TLTS – too low to sample

*This reporting period does not include measurements for the 6 monthly or 3 monthly monitoring as they did not occur in this period. These will be reported in their relevant periods.

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 °C/100m & / Wind m/s / Wind Direction °)	Observations	(Potential) Non-compliance /breach	Date Obtained
				LA1, 1 Minute	LAeq, 15 Minute					
R24	16 September 2021	60 minutes	1:49 pm	N/A	40	Day 37	1.8 / 189	Traffic (39), birds (33), WCC (<20)	No	14/10/2021
R12	16 September 2021	60 minutes	3:32 pm	N/A	35	Day 38	2.6 / 187	Traffic (34), birds (27), WCC (<20)	No	14/10/2021
R96	16 September 2021	60 minutes	12:34 pm	N/A	33	Day 38	1.4 / 229	Birds (32), traffic (24), WCC (23)	No	14/10/2021
R98	16 September 2021	60 minutes	1:33 pm	N/A	38	Day 40 ¹	1.2 / 194	Birds (37), dogs (29), WCC (25)	No	14/10/2021
R57	16 September 2021	60 minutes	3:22 pm	N/A	49	Day 35	2.3 / 192	Traffic (48), birds (39), residential (31), WCC (<20)	No	14/10/2021
R24	16 September 2021	60 minutes	7:04 pm	<20	47	Night 37	+1.8 / 2.0 / 136	Traffic (46), birds (38), WCC (<20)	No	14/10/2021
R12	16 September 2021	60 minutes	10:13 pm	<20	41	Night 38	+1.0 / 1.5 / 172	Frogs (38), traffic (36), trains (32) WCC (<20)	No	14/10/2021
R96	16 September 2021	60 minutes	7:01 pm	30	34	Night 37	+1.8 / 2.0 / 136	Frogs (32), birds (28), WCC (26)	No	14/10/2021
R98	16 September 2021	60 minutes	8:12 pm	27	35	Night 40 ¹	+0.9 / 1.5 / 138	Frogs (34), WCC (24) , dogs (21)	No	14/10/2021
R57	16 September 2021	60 minutes	10:04 pm	<20	39	Night 35	+0.8 / 1.7 / 174	Trains (37), traffic (32), frogs (27), WCC (<20)	No	14/10/2021

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

IA = Inaudible.

¹ Private Agreement in place

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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	6	101.8	106.9	120.0	No	30/09/2021
	Blast Vibration	mm/s	Every Blast	6	0.13	0.15	10.0	No	30/09/2021
R98	Blast Noise	dB (Lin Peak)	Every Blast	6	103.1	106.4	120.0	No	30/09/2021
	Blast Vibration	mm/s	Every Blast	6	1.18	2.72	10.0	No	30/09/2021
R62	Blast Noise	dB (Lin Peak)	Every Blast	6	102.9	107.2	120.0	No	30/09/2021
	Blast Vibration	mm/s	Every Blast	6	0.52	0.72	10.0	No	30/09/2021
R92	Blast Noise	dB (Lin Peak)	Every Blast	6	99.5	104.2	120.0	No	30/09/2021
	Blast Vibration	mm/s	Every Blast	6	0.33	0.44	10.0	No	30/09/2021

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