

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: JANUARY 2024 Obtained Date: 26/02/2024 Publication Date: 29/02/2024

**Table 1 - No Pollutant Limits Apply** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
28	PM10	μg/m³	Every 6 days	6	30/01/2024	23/02/2024	3.5	4.3	4.2	5.0
20	Solid Particles	g/m²/month	Continuous	1	18/01/2024	31/01/2024	0.6	0.6	0.6	0.6
29	PM10	μg/m³	Every 6 days	6	31/12/2023	23/01/2024	3.2	6.2	6.7	8.3
29	Solid Particles	g/m²/month	Continuous	1	18/01/2024	31/01/2024	0.7	0.7	0.7	0.7
30	PM10	μg/m³	Continuous	Continuous	31/01/2024	6/02/2024	5.0	9.9	8.6	20.6
30	Solid Particles	g/m²/month	Continuous	1	18/01/2024	31/01/2024	0.2	0.2	0.2	0.2
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	1	-	-	-
10	Nitrogen (Total)	mg/L	Special Frequency 1	0*	ı	-	1	-	-	1
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	ı	-	ı	-	-	ı
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	1	-	-	•
	Conductivity	μS/cm	Special Frequency 1	1	04/01/2024	16/01/2024	912	912	912	912
	Nitrate	mg/L	Special Frequency 1	1	04/01/2024	16/01/2024	0.11	0.11	0.11	0.11
12	Nitrogen (Total)	mg/L	Special Frequency 1	1	04/01/2024	16/01/2024	0.6	0.6	0.6	0.6
	Phosphorus (Total)	mg/L	Special Frequency 1	1	04/01/2024	16/01/2024	0.16	0.16	0.16	0.16
	Reactive Phosphorus	mg/L	Special Frequency 1	1	04/01/2024	16/01/2024	0.14	0.14	0.14	0.14

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Conductivity	μS/cm	Special Frequency 1	1	22/01/2024	26/02/2024	829	829	829	829
	Nitrate	mg/L	Special Frequency 1	1	22/01/2024	26/02/2024	0.79	0.79	0.79	0.79
12	Nitrogen (Total)	mg/L	Special Frequency 1	1	22/01/2024	26/02/2024	1.1	1.1	1.1	1.1
	Phosphorus (Total)	mg/L	Special Frequency 1	1	22/01/2024	26/02/2024	0.01	0.01	0.01	0.01
	Reactive Phosphorus	mg/L	Special Frequency 1	1	22/01/2024	26/02/2024	<0.01	<0.01	<0.01	<0.01
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
14	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	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*	-	-	-	-	-	-
32	рН	рН	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	1	1	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	1	ı	-	-	-	-
	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*	-	-	-	-	-	-
23	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	рН	рН	Special Frequency 2	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	ı	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0*	-	-	1	-	-	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	1	-	-	-
24	рН	рН	Special Frequency 2	0*	-	-	1	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	1	-	-	-
	<b>Reactive Phosphorus</b>	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	0*	-	-	-	-	1	-
	Nitrate	mg/L	Special Frequency 2	0*	-	-	1	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	1	-	1	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	1	-	1	-
25	рН	рН	Special Frequency 2	0*	-	-	ı	-	1	-
	Phosphorus (Total)	mg/L	Special Frequency 2	0*	-	-	1	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 2	0*	-	-	1	-	-	-
	Total Suspended Solids	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 2	1	04/01/2024	16/01/2024	874	874	874	874
	Nitrate	mg/L	Special Frequency 2	1	04/01/2024	16/01/2024	0.01	0.01	0.01	0.01
	Nitrogen (Total)	mg/L	Special Frequency 2	1	04/01/2024	16/01/2024	0.2	0.2	0.2	0.2
26	Oil and Grease	mg/L	Special Frequency 2	1	04/01/2024	16/01/2024	<5	<5	<5	<5
	рН	рН	Special Frequency 2	1	04/01/2024	16/01/2024	8.14	8.14	8.14	8.14
	Phosphorus (Total)	mg/L	Special Frequency 2	1	04/01/2024	16/01/2024	0.11	0.11	0.11	0.11
	Reactive Phosphorus	mg/L	Special Frequency 2	1	04/01/2024	16/01/2024	0.11	0.11	0.11	0.11

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Total Suspended Solids	mg/L	Special Frequency 2	1	04/01/2024	16/01/2024	6	6	6	6
	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*	-	-	1	-	-	1
	BOD	mg/L	Special Frequency 3	0*	-	-	1	-	-	1
	Cadmium (dissolved)	mg/L	Special Frequency 3	0*	-	-	1	-	-	1
	Chromium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
33	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
33	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*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	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*	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Arsenic (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
35	Barium (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
33	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*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s 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*	-	-	-	-	-	-
	Zinc (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-

<sup>&</sup>lt;sup>1</sup>NS – No sample.

# **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)	Comments
10	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
10	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	1	10	No	
	рН	рН	Special Frequency 1	0*	-	- 1	-	-	6.5-8.5	No	

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)	Comments
12	Total Suspended Solids	mg/L	Special Frequency 1	1	04/01/2024	16/01/2024	6	6	50~	No	
12	Oil and Grease	mg/L	Special Frequency 1	1	04/01/2024	16/01/2024	<5	<5	10	No	
	рН	рН	Special Frequency 1	1	04/01/2024	16/01/2024	6.93	6.93	6.5-8.5	No	
12	Total Suspended Solids	mg/L	Special Frequency 1	1	22/01/2024	26/02/2024	<5	<b>&lt;</b> 5	50~	No	
12	Oil and Grease	mg/L	Special Frequency 1	1	22/01/2024	26/02/2024	<5	<5	10	No	
	рН	рН	Special Frequency 1	1	22/01/2024	26/02/2024	7.31	7.31	6.5-8.5	No	
14	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	ı	50~	No	
14	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
32	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	2000	No	
32	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	1	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	9	No	
33	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	-	-	1	2000	No	
33	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	-	-	-	-	9	No	
34	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	-	-	ı	2000	No	
54	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	-	-	-	-	9	No	
35	Electrical Conductivity	μS/cm	Special Frequency 4	1	15/01/2024	1/1/2024	1688	1688	2000	No	
	Oil and Grease	mg/L	Special Frequency 3	1	21/11/2023	30/11/2023	<5	<5	10	No	

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)	Comments
	рН	рН	Special Frequency 4	1	15/01/2024	1/1/2024	7.52	7.52	9	No	

<sup>~</sup> Total Suspended Solids permitted to exceed 50mg/L if 5 day rainfall is greater than 39.2mm prior to discharge

- 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.

<sup>\*</sup>No Special Frequency Events occurred during Sampling Period, therefore no data has been collected.

<sup>#</sup>The discharge sample was inconsistent with pre-discharge sampling of the dam and has been discussed with the EPA. This will be documented in the Annual Return.

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
	Conductivity	μS/cm	Every 3 Months	0*	-	-	-	-	-	-
	Nitrate	mg/L	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
16	pН	рН	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
10	Phosphorus (Total)	mg/L	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Total Suspended Solids	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Conductivity	μS/cm	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	<b>Every 3 Months</b>	0*	-	ı	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	<b>Every 3 Months</b>	0*	-	ı	-	-	-	-
27	рН	рН	<b>Every 3 Months</b>	0*	-	ı	-	-	-	-
	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*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
1 47	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
17	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	рН	рН	<b>Every 6 Months</b>	0*	-	-	-	-	-	-

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*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	ı
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	1
	Nitrate	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	ı
	рН	рН	<b>Every 6 Months</b>	0*	-	-	-	-	-	ı
18	Phosphorus (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	ı
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	1
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	рН	рН	<b>Every 6 Months</b>	0*	-	-	-	-	-	ı
19	Phosphorus (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Every 6 Months	0*	-	-	-	-	-	-
20	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
20	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	рН	рН	Every 6 Months	0*		-	-	-	-	-

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*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	pН	рН	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
21	Phosphorus (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	рН	рН	Every 6 Months	0*	-	-	-	-	-	-
22	Phosphorus (Total)	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	-

TLTS – too low to sample

<sup>\*</sup>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.

**Table 4 – Monitoring (Noise – Limits Apply)** 

		Measurement	Start		ed levels – B(A)		Weather (Inversion		(Potential) Non-	Date
Location	Date	Period	Time	LA1, 1 Minute	LAeq, 15 Minute	Limit(s)	°C/100m & / Wind m/s / Wind Direction °)	Observations	compliance /breach	Obtained
R24	15 January 2024	60 minutes	10:14am	N/A	44	Day 37	2.6 / 189	Insects (43), traffic (35), birds (32), aeroplanes (27), <b>WCC (&lt;20)</b>	No	26/02/2024
R12	15 January 2024	60 minutes	5:27pm	N/A	47	Day 38	7.6 / 154	Birds (47), traffic (35), wind in trees (29), <b>WCC (&lt;20)</b>	No	26/02/2024
R96	15 January 2024	60 minutes	4:20pm	N/A	50	Day 38	7.9 / 170	Birds (50), wind in trees (30), <b>WCC</b> ( <b>&lt;20</b> )	No	26/02/2024
R98	15 January 2024	60 minutes	3:10pm	N/A	59	Day 35	7.7 / 161	Birds (59), wind in trees (33), <b>WCC</b> ( <b>&lt;20</b> )	No	26/02/2024
R57	15 January 2024	60 minutes	12:12pm	N/A	49	Day 35	2.6 / 225	Traffic (49), insects (36), Crawfords <sup>1</sup> (33), birds (31), <b>WCC (&lt;20)</b>	No	26/02/2024
R24	15 January 2024	60 minutes	7:56pm	<20	45	Night 37	Lapse / 2.0 / 159	Traffic (44), insects (37), frogs (27), <b>WCC (&lt;20)</b>	No	26/02/2024
R12	15 January 2024	60 minutes	11:47pm	<20	35	Night 38	Lapse / 2.9 / 157	Insects (34), frogs (26), traffic (26), <b>WCC (&lt;20)</b>	No	26/02/2024
R96	15 January 2024	60 minutes	10:38pm	<20	48	Night 37	Lapse / 3.0 / 154	Traffic (48), insects (33), frogs (30), WCC (<20)	No	26/02/2024
R98	15 January 2024	60 minutes	9:31pm	<20	37	Night 35	Lapse / 2.5 / 159	Traffic (35), insects (32), WCC (<20)	No	26/02/2024
R57	15 January 2024	60 minutes	7:43pm	<20	50	Night 35	Lapse / 5.3 / 127	Traffic (49), train (41), birds (33), insects (29), <b>WCC (&lt;20)</b>	No	26/02/2024

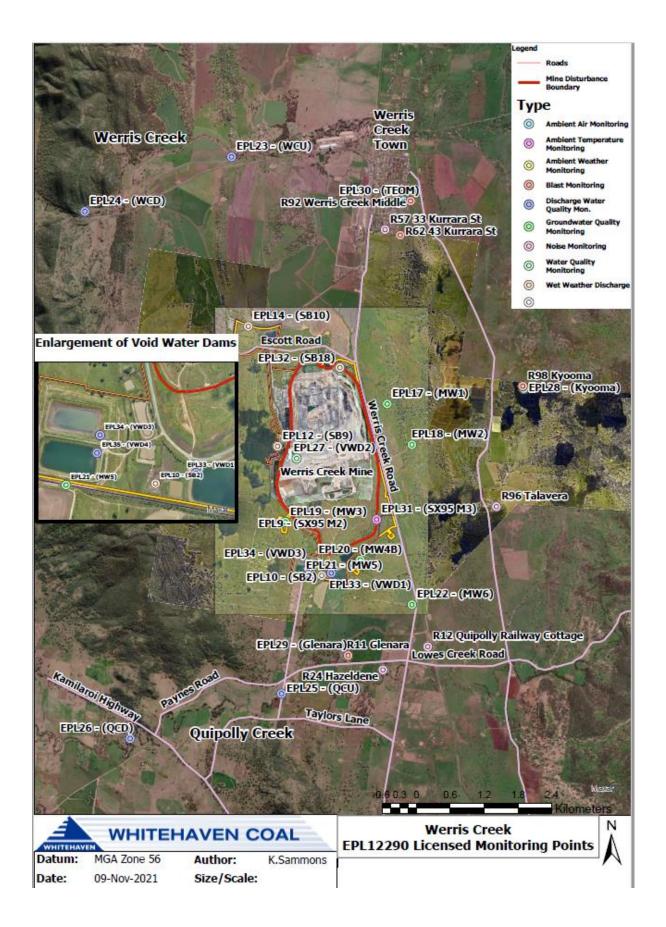
NM = Not Measurable. This denotes noise from the mine was audible at low levels however cannot be quantified. IA = Inaudible.

<sup>&</sup>lt;sup>1</sup> Crawfords Freightlines Werris Creek

# Table 5 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of	Frequency	No. of Blasts	Average	Max	100%ile	(Potential) Non-	Date
Location	raiailletei	Measure	rrequericy	for the Month	Value	Value	Limit	compliance /breach	Obtained
R11	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	1	95.8	95.8	120.0	No	01/02/2024
KII	Blast Vibration	mm/s	<b>Every Blast</b>	1	0.13	0.13	10.0	No	01/02/2024
R98	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	1	92.1	92.1	120.0	No	01/02/2024
K96	Blast Vibration	mm/s	<b>Every Blast</b>	1	0.87	0.87	10.0	No	01/02/2024
R62	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	1	97.5	97.5	120.0	No	01/02/2024
K02	Blast Vibration	mm/s	<b>Every Blast</b>	1	0.42	0.42	10.0	No	01/02/2024
R92	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	1	65.3	65.3	120.0	No	01/02/2024
N92	Blast Vibration	mm/s	<b>Every Blast</b>	1	0.17	0.17	10.0	No	01/02/2024







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:** FEBRUARY 2024 **Obtained Date:** 20<sup>th</sup> March 2024 **Publication Date:** 21<sup>st</sup> March 2024

**Table 1 - No Pollutant Limits Apply** 

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
28	PM10	μg/m³	Every 6 days	6	29/02/2024	14/03/2024	2.3	7.4	5.4	12.8
20	<b>Solid Particles</b>	g/m²/month	Continuous	1	19/02/2024	01/03/2024	0.6	0.6	0.6	0.6
29	PM10	μg/m³	Every 6 days	6	29/02/2023	14/03/2024	4.2	12.8	14.7	22.9
29	<b>Solid Particles</b>	g/m²/month	Continuous	1	19/02/2024	01/03/2024	2.2	2.2	2.2	2.2
30	PM10	μg/m³	Continuous	Continuous	29/02/2024	07/03/2024	6.6	15.2	14.1	24.3
30	<b>Solid Particles</b>	g/m²/month	Continuous	1	19/02/2024	01/03/2024	0.4	0.4	0.4	0.4
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	1	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	1	-	-	-
10	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	1	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
12	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
12	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Conductivity	μS/cm	Special Frequency 1	0*	-	-	-	-	-	-
	Nitrate	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
14	Nitrogen (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Phosphorus (Total)	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Special Frequency 1	0*	-	-	-	-	-	-
	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*	-	-	-	-	-	-
32	рН	рН	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-
23	рН	рН	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*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Nitrate	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Special Frequency 2	0*	-	-	-	-	-	-
	рН	рН	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-
25	рН	рН	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*	-	-	-	-	-	-
	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*	-	-	-	-	-	-
26	рН	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*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	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*	-	-	-	-	-	-
33	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
33	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*	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	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*	-	-	1	-	-	-
	Cobalt (dissolved)	mg/L	Special Frequency 3	0*	-	-	1	-	-	-
	Copper (dissolved)	mg/L	Special Frequency 3	0*	-	-	1	-	-	-
	Iron (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Lead (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Magnesium	mg/L	Special Frequency 3	0*	1	-	1	-	-	-
	Manganese (dissolved)	mg/L	Special Frequency 3	0*	-	-	-	-	-	-
	Nickel (dissolved)	mg/L	Special Frequency 3	0*	-	-	ı	-	-	-
	Potassium	mg/L	Special Frequency 3	0*	1	-	1	-	-	-
	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*	-	-	-	-	-	-
	Aluminium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.01	<0.01	<0.01	<0.01
25	Arsenic (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	0.002	0.002	0.002	0.002
35	Barium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	0.076	0.076	0.076	0.076
	Beryllium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.001	<0.001	<0.001	<0.001
	BOD	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	3.00	3.00	3.00	3.00

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Measurement s for the Month	Date Sampled	Date Obtained	Min Value	Mean Value	Median Value	Max Value
	Cadmium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.0001	<0.0001	<0.0001	<0.0001
	Chromium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.001	<0.001	<0.001	<0.001
	Cobalt (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.001	<0.001	<0.001	<0.001
	Copper (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.001	<0.001	<0.001	<0.001
	Iron (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.05	<0.05	<0.05	<0.05
	Lead (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.001	<0.001	<0.001	<0.001
	Magnesium	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	45	45	45	45
	Manganese (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	0.002	0.002	0.002	0.002
	Nickel (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	0.001	0.001	0.001	0.001
	Potassium	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	18	18	18	18
	Selenium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.01	<0.01	<0.01	<0.01
	Sodium	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	205	205	205	205
	Total dissolved solids	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	1400	1400	1400	1400
	Vanadium (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<0.01	<0.01	<0.01	<0.01
	Zinc (dissolved)	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	0.005	0.005	0.005	0.005

<sup>&</sup>lt;sup>1</sup>NS – No sample.

### **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)	Comments
10	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	1	-	-	50~	No	
10	Oil and Grease	mg/L	Special Frequency 1	0*	-	1	-	-	10	No	
	рН	рН	Special Frequency 1	0*	1	1	-	-	6.5-8.5	No	
12	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	1	-	-	50~	No	
12	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
44	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	50~	No	
14	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	-	-	-	-	6.5-8.5	No	
32	Total Suspended Solids	mg/L	Special Frequency 1	0*	-	-	-	-	2000	No	
32	Oil and Grease	mg/L	Special Frequency 1	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 1	0*	1	ı	-	-	9	No	
22	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	1	-	ı	2000	No	
33	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	1	-	-	-	9	No	
24	Electrical Conductivity	μS/cm	Special Frequency 4	0*	-	-	-	-	2000	No	
34	Oil and Grease	mg/L	Special Frequency 3	0*	-	-	-	-	10	No	
	рН	рН	Special Frequency 4	0*	-	-	-	-	9	No	

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)	Comments
	Electrical Conductivity	μS/cm	Special Frequency 4	2	5/2 & 15/2/2024	29/02/2024	1595	1825	2000	No	
35	Oil and Grease	mg/L	Special Frequency 3	1	27/02/2024	21/03/2024	<5	<5	10	No	
	рН	рН	Special Frequency 4	2	5/2 & 15/2/2024	29/02/2024	7.8	8.2	9	No	

<sup>~</sup> Total Suspended Solids permitted to exceed 50mg/L if 5 day rainfall is greater than 39.2mm prior to discharge

- 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.

<sup>\*</sup>No Special Frequency Events occurred during Sampling Period, therefore no data has been collected.

<sup>#</sup>The discharge sample was inconsistent with pre-discharge sampling of the dam and has been discussed with the EPA. This will be documented in the Annual Return.

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
	Conductivity	μS/cm	<b>Every 3 Months</b>	1	27/02/2024	19/03/2024	1930	1930	1930	1930
	Nitrate	mg/L	<b>Every 3 Months</b>	1	27/02/2024	19/03/2024	<0.01	<0.01	<0.01	<0.01
	Nitrogen (Total)	mg/L	<b>Every 3 Months</b>	1	27/02/2024	19/03/2024	0.2	0.2	0.2	0.2
	Oil and Grease	mg/L	<b>Every 3 Months</b>	1	27/02/2024	19/03/2024	<5	<5	<5	<5
16	рН	рН	<b>Every 3 Months</b>	1	27/02/2024	19/03/2024	8.01	8.01	8.01	8.01
10	Phosphorus (Total)	mg/L	<b>Every 3 Months</b>	1	27/02/2024	19/03/2024	0.02	0.02	0.02	0.02
	Reactive Phosphorus	mg/L	Every 3 Months	1	27/02/2024	19/03/2024	0.01	0.01	0.01	0.01
	Total Suspended Solids	mg/L	Every 3 Months	1	27/02/2024	19/03/2024	<5	<5	<5	<5
	Conductivity	μS/cm	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 3 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 3 Months</b>	0*	-	-	-	-	-	-
	Oil and Grease	mg/L	Every 3 Months	0*	-	-	-	-	-	-
27	рН	рН	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*	-	-	-	-	-	-
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
17	Nitrate	mg/L	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	<b>Every 6 Months</b>	0*		-	-	-	-	-

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

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*			-	-	-	-
	рН	рН	<b>Every 6 Months</b>	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*	-	-	-	-	-	-
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	рН	рН	Every 6 Months	0*	-	-	-	-	-	-
21	Phosphorus (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Reactive Phosphorus	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Standing Water Level	Metres	Every 6 Months	0*	-	-	-	-	-	1
	Conductivity	μS/cm	<b>Every 6 Months</b>	0*	-	-	-	-	-	-
	Nitrate	mg/L	Every 6 Months	0*	-	-	-	-	-	-
	Nitrogen (Total)	mg/L	Every 6 Months	0*	-	-	-	-	-	-
22	рН	рН	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

#### **Table 4 – Monitoring (Noise – Limits Apply)**

Location	Date	Measurement Period	Start Time	Measured levels – dB(A)			Weather (Inversion		(Potential) Non-	Date
				LA1, 1 Minute	LAeq, 15 Minute	Limit(s)	°C/100m & / Wind m/s / Wind Direction °)	Observations	compliance /breach	Obtained
R24	27 February 2024	60 minutes	9:41am	N/A	48	46	3.4 / 066	Traffic (48), birds (31), insects (23), <b>WCC (&lt;20)</b>	No	20/03/2024
R12	27 February 2024	60 minutes	12:47pm	N/A	39	36	2.4 / 026	Insects (39), traffic (27), <b>WCC (&lt;20)</b>	No	20/03/2024
R96	27 February 2024	60 minutes	9:59am	N/A	47	43	2.7 / 072	Insects (46), birds (40), WCC (<20)	No	20/03/2024
R98	27 February 2024	60 minutes	11:14am	N/A	35	49	2.1 / 077	Birds (34), aeroplanes (24), insects (23), <b>WCC (&lt;20)</b>	No	20/03/2024
R57	27 February 2024	60 minutes	1:04pm	N/A	47	40	1.1 / 348	Traffic (44), birds (43), <b>WCC (&lt;20)</b>	No	20/03/2024
R24	28 February 2024	60 minutes	9:10pm	<20	46	46	Lapse / 2.3 / 143	Traffic (45), insects (39), <b>WCC (&lt;20)</b>	No	20/03/2024
R12	28 February 2024	60 minutes	7:17pm	<20	36	36	Lapse / 4.7 / 151	Birds (33), insects (32), traffic (24), WCC (<20)	No	20/03/2024
R96	28 February 2024	60 minutes	8:44pm	<20	43	43	Lapse / 3.3 / 137	Insects (43), dog (23), <b>WCC (&lt;20)</b>	No	20/03/2024
R98	28 February 2024	60 minutes	9:52pm	<20	49	49	Lapse / 1.3 / 168	Insects (49), birds (23), WCC (<20)	No	20/03/2024
R57	28 February 2024	60 minutes	11:54pm	<20	40	40	Lapse / 0.9 / 179	Traffic (38), insects (34), dogs (27), <b>WCC (&lt;20)</b>	No	20/03/2024

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

<sup>\*</sup>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.

<sup>&</sup>lt;sup>1</sup> Crawfords Freightlines Werris Creek

# Table 5 – Monitoring (Blasts – Limits Apply)

Location	Parameter	Units of	Fraguancy	No. of Blasts	Average	Max	100%ile	(Potential) Non-	Date
		Measure	Frequency	for the Month	Value	Value	Limit	compliance /breach	Obtained
R11	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	3	95.1	96.9	120.0	No	01/03/2024
	Blast Vibration	mm/s	<b>Every Blast</b>	3	0.05	0.06	10.0	No	01/03/2024
R98	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	3	94.9	95.1	120.0	No	01/03/2024
	Blast Vibration	mm/s	<b>Every Blast</b>	3	0.63	0.75	10.0	No	01/03/2024
R62	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	3	98.1	100.9	120.0	No	01/03/2024
	Blast Vibration	mm/s	<b>Every Blast</b>	3	0.29	0.32	10.0	No	01/03/2024
R92	Blast Noise	dB (Lin Peak)	<b>Every Blast</b>	3	93.6	95.2	120.0	No	01/03/2024
	Blast Vibration	mm/s	Every Blast	3	0.15	0.17	10.0	No	01/03/2024



