



## VICKERY COAL MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 21283

**EPA Website Link:**

**Licensee:** Vickery Coal Pty Ltd

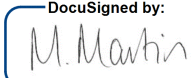
**Licensee Address:** Vickery Coal Mine, Blue Vale Road, BOGGABRI NSW 2382

**EPL Monitoring Points:** See Figure 1 below

**Sampling Period:** June 2024

**Obtained Date:** 9/07/2024

**Publication Date:** 9/07/2024

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by: 	July 9, 2024   11:34 AM AEST

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**Table 1: Surface Water – No Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value	Comment/s
2	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	1	18/06/24	18/06/24	-	-	-	586	-
	Conductivity	µS/cm		1	18/06/24	18/06/24	-	-	-	166	
	Oil & Grease	mg/L		1	18/06/24	18/06/24	-	-	-	<5	
	pH	pH		1	18/06/24	18/06/24	-	-	-	6.65	
3	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	Low water level – no sample possible
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
9	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	1	18/06/24	18/06/24	-	-	-	415	-
	Conductivity	µS/cm		1	18/06/24	18/06/24	-	-	-	737	
	Oil & Grease	mg/L		1	18/06/24	18/06/24	-	-	-	<5	
	pH	pH		1	18/06/24	18/06/24	-	-	-	7.86	
10	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	No discharge
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	

**Table 2: Surface Water - Pollutant Limits Apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Month	Date Sampled	Date of Max. Value Obtained	Min Value	Max or Only Value	100%ile Limit	Exceed -ance (Yes/ No)	Comment/s
14	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	No discharge
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
20	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	No discharge
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
21	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	No discharge
	Conductivity	µS/cm		-	-	-	-	-	NA	-	
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	

**Table 3: Groundwater – No Limits apply**

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
15	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
16	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
17	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-
18	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-

EPL ID	Pollutant	Units of Measure	Monitoring Frequency	No. of Samples for the Period	Date Sampled	Date of Max. Value Obtained	Min Value	Mean Value	Median Value	Max or Only Value
19	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	-
	Lead	mg/L		-	-	-	-	-	-	-
	pH	pH		-	-	-	-	-	-	-
	Standing Water Level	metres		-	-	-	-	-	-	-

**Table 4 – Monthly Attended Noise Monitoring**

(Noise Limits Apply - 40dB LAeq(15min) -Day, 37dB LAeq(15min) Evening and Night; 52dB LA1(1min) -Night)

Table 4								
VCM Operational Noise Monitoring Results Leq(15min) – 17 <sup>th</sup> & 18 <sup>th</sup> June 2024 (Day)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	10:05am	32	IA	40	1.9 / 274	B	Traffic (30), aeroplane (25), birds (23), <b>VCM (IA)</b>	No
N-AT2 / 8	2:45pm	45	IA	40	.8 / 242	C	Traffic (44), residential (38), birds (24), <b>VCM (IA)</b>	No

Table 5								
VCM Operational Noise Monitoring Results Leq(15min) – 17 <sup>th</sup> June 2024 (Evening)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	8:16pm	29	IA	35	1.8 / 281	E	Traffic (28), insects (21), <b>VCM (IA)</b>	No
N-AT2 / 8	9:23pm	42	IA	37	2.5 / 325	E	Traffic (42), dog (22), <b>VCM (IA)</b>	No

Table 6								
VCM Operational Noise Monitoring Results Leq(15min) – 17 <sup>th</sup> June 2024 (Night)								
Location	Time	dB(A), Leq	VCM Contribution dB(A),Leq	Criterion dB(A),Leq	Wind speed (m/s),dir	Stability Class	Identified Noise Sources dB(A),Leq	Exceedance (Yes/No)
N-AT1 / 7	11:41pm	26	IA	40 <sup>1</sup>	3.3 / 298	E	Traffic (25), birds (20), <b>VCM (IA)</b>	No
N-AT2 / 8	10:00pm	34	IA	42 <sup>1</sup>	3.1 / 268	E	Traffic (34), horses (24), <b>VCM (IA)</b>	No
Table 7								
VCM Operational Noise Monitoring Results LA <sub>max</sub> – 17 <sup>th</sup> June 2024								
Location	Time	dB(A), LA <sub>max</sub>	VCM Contribution dB(A), LA <sub>max</sub>	Criterion dB(A), LA <sub>max</sub>	Wind speed (m/s),dir	Stability Class	LA <sub>max</sub> Noise Source	Exceedance (Yes/No)
N-AT1 / 7	11:41pm	43	IA	57 <sup>1</sup>	3.3 / 298	E	Traffic	No
N-AT2 / 8	10:00pm	50	IA	57 <sup>1</sup>	3.1 / 268	E	Traffic	No

**Table 5 – Monthly Monitoring (Blasts – Limits Apply)**

*No Blast Monitoring data reported for June*

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
B-01	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	133	Nil	-
	Blast Vibration	mm/s	Every Blast	0	-	-	10	Nil	-

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
B-02	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	N/A	Nil	-
	Blast Vibration	mm/s	Every Blast	0	-	-	80	Nil	-

Location	Parameter	Units of Measure	Frequency	No. of Blasts for the Month	Average Value	Max Value	100%ile Limit	(Potential) Non-compliance /breach	Date of Max. Value Obtained
B-03	Blast Noise	dB (Lin Peak)	Every Blast	0	-	-	120	Nil	-
	Blast Vibration	mm/s	Every Blast	0	-	-	10	Nil	-



**Table 6- PM1 Monthly Monitoring (Limits apply)**

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM ( $\mu\text{g}/\text{m}^3$ )	Continuous	1.8	6.1	12.6
PM2.5 TEOM ( $\mu\text{g}/\text{m}^3$ )	Continuous	1.1	3.6	6.5

**Table 7- PM2 Monthly Monitoring (Limits apply)**

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM ( $\mu\text{g}/\text{m}^3$ )	Continuous	1.2	5.4	10.1
PM2.5 TEOM ( $\mu\text{g}/\text{m}^3$ )	Continuous	0.3	2.8	5

Figure 1 – EPL 21283 Monitoring Locations



**EPL Monitoring Locations**

● Attended Noise	● TEOM
● Blast Monitor	□ Approved Disturbance Area
● Groundwater	— Mining Lease
● Meteorological	
● Surface Water	



**Vickery Coal Mine  
EPL Monitoring Locations**

Date: Sept 2023  
MGA Zone 56  
Scale: 1:68,000  
Author: A. Quiroz

