



## VICKERY COAL MINE – MONTHLY MONITORING SUMMARY

### Site Information

**EPL No:** 21283

**EPA Website Link:**

<https://whitehavencoal.com.au/Documentations/Vickery%20Extension%20Project/Approvals/Environment%20Protection%20Licence/VIC%20-%20Environmental%20Protection%20Licence.pdf?v=1702936903>

**Licensee:** Vickery Coal Pty Ltd

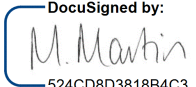
**Licensee Address:** Vickery Coal Mine, Blue Vale Road, BOGGABRI NSW 2382

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

**Sampling Period:** September 2024

**Obtained Date:** 17/10/2024

**Publication Date:** 21/10/2024

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	 DocuSigned by: M. Martin 524CD8D3818B4C3...	October 18, 2024   5:11 PM AEDT

**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)	-	-	-	-	-	-	-	Creek not flowing. Unable to sample
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
3	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	Creek not flowing. Unable to sample
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
9	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	1	26/09/24	26/09/24	-	-	-	19	-
	Conductivity	µS/cm		1	26/09/24	26/09/24	-	-	-	762	
	Oil & Grease	mg/L		1	26/09/24	26/09/24	-	-	-	<5	
	pH	pH		1	26/09/24	26/09/24	-	-	-	8.3	
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) – 24 <sup>th</sup> September 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	1:40pm	37	IA	40	2.7 / 300	C	Birds (37), wind (25), aeroplanes (21), <b>VCM (IA)</b>	No
N-AT2 / 8	3:53pm	46	IA	45 <sup>1</sup>	3.2 / 301	D	Birds (44), wind (41), <b>VCM (IA)</b>	No
Table 5								
VCM Operational Noise Monitoring Results Leq(15min) – 24 <sup>th</sup> September 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	9:20pm	32	IA	40 <sup>1</sup>	3.6 / 028	E	Wind (28), dogs (26), traffic (25), <b>VCM (IA)</b>	No
N-AT2 / 8	8:18pm	38	IA	42 <sup>1</sup>	3.6 / 026	E	Traffic (35), wind (34), <b>VCM (IA)</b>	No

Table 6								
VCM Operational Noise Monitoring Results Leq(15min) – 24 <sup>th</sup> September 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	10:02pm	36	IA	35	1.3 / 129	E	Insects (36), <b>VCM (IA)</b>	No
N-AT2 / 8	11:40pm	41	IA	37	0.8 / 200	E	Birds (39), traffic (33), insects (33), <b>VCM (IA)</b>	No

Table 7								
VCM Operational Noise Monitoring Results LA <sub>max</sub> – 24 <sup>th</sup> September 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	10:02pm	66	IA	52	1.3 / 129	E	Insects	No
N-AT2 / 8	11:40pm	63	IA	52	0.8 / 200	E	Birds	No

**Table 5 – Monthly 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 of Max. Value Obtained
B-01	Blast Noise	dB (Lin Peak)	Every Blast	5	102.1	110.20	N/A	Nil	25/09/2024
	Blast Vibration	mm/s	Every Blast	5	0.91	2.29	N/A	Nil	25/09/2024

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	5	102.18	107.90	N/A	Nil	5/09/2024
	Blast Vibration	mm/s	Every Blast	5	0.92	1.69	N/A	Nil	14/09/2024

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	5	94.74	103.50	120	N/A	5/09/2024
	Blast Vibration	mm/s	Every Blast	5	0.23	0.41	10	N/A	25/09/2024



**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	4.6	12.6	20.9
PM2.5 TEOM ( $\mu\text{g}/\text{m}^3$ )	Continuous	2.2	5	8.3

**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	2.5	11	20.9
PM2.5 TEOM ( $\mu\text{g}/\text{m}^3$ )	Continuous	0.2	4.3	12.1

Figure 1 – EPL 21283 Monitoring Locations



**EPL Monitoring Locations**

● Atended 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

