



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: October 2024

Obtained Date: 24/11/2024

Publication Date: 26/11/2024

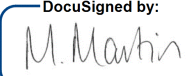
Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	<p>DocuSigned by:  5246D8D3818B463...</p>	November 25, 2024 2:38 PM AEDT

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)	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
3	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
9	TSS	mg/L	Quarterly (Mar, Jun, Sep & Dec)	-	-	-	-	-	-	-	-
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
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)	1	15/10/24	15/10/24	-	-	-	5540
	Lead	mg/L		1	15/10/24	15/10/24	-	-	-	<0.001
	pH	pH		1	15/10/24	15/10/24	-	-	-	7.08
	Standing Water Level	metres		1	15/10/24	15/10/24	-	-	-	6.9
16	Conductivity	µS/cm	Six Monthly (April & Oct)	1	15/10/24	15/10/24	-	-	-	2420
	Lead	mg/L		1	15/10/24	15/10/24	-	-	-	<0.001
	pH	pH		1	15/10/24	15/10/24	-	-	-	7.23
	Standing Water Level	metres		1	15/10/24	15/10/24	-	-	-	7.86
17	Conductivity	µS/cm	Six Monthly (April & Oct)	-	-	-	-	-	-	Sampling not possible. Logger Data available
	Lead	mg/L		-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	
	Standing Water Level	metres		-	-	-	-	-	-	
18	Conductivity	µS/cm	Six Monthly (April & Oct)	1	14/10/24	14/10/24	-	-	-	1910
	Lead	mg/L		1	14/10/24	14/10/24	-	-	-	<0.001
	pH	pH		1	14/10/24	14/10/24	-	-	-	7.41
	Standing Water Level	metres		1	14/10/24	14/10/24	-	-	-	7.9

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)	1	18/10/24	18/10/24	-	-	-	4580
	Lead	mg/L		1	18/10/24	18/10/24	-	-	-	<0.001
	pH	pH		1	18/10/24	18/10/24	-	-	-	6.46
	Standing Water Level	metres		1	18/10/24	18/10/24	-	-	-	16.58

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) – 28 th October 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	1:50pm	47	IA	40	4.0 / 170	C	Birds (45), wind (42), traffic (32), VCM (IA)	No
N-AT2 / 8	4:08pm	48	IA	40	2.3 / 153	D	Traffic (45), frogs (43), VCM (IA)	No
Table 5								
VCM Operational Noise Monitoring Results Leq(15min) – 28 th October 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	9:27pm	32	IA	35	2.4 / 127	D	Traffic (30), Wind (26), VCM (IA)	No
N-AT2 / 8	8:16pm	42	IA	37	0.5 / 59	E	Frogs (40), Traffic (35), VCM (IA)	No

Table 6								
VCM Operational Noise Monitoring Results Leq(15min) – 28 th October 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	10:00pm	30	20	35	1.0 / 267	E	Traffic (28), cattle (25), VCM (20)	No
N-AT2 / 8	11:49pm	38	IA	37	1.7 / 309	E	Traffic (37), frogs (30), VCM (IA)	No
Table 7								
VCM Operational Noise Monitoring Results LA _{max} – 28 th October 2024								
Location	Time	dB(A), LA _{max}	VCM Contribution dB(A), LA _{max}	Criterion dB(A), LA _{max}	Wind speed (m/s),dir	Stability Class	LA _{max} Noise Source	Exceedance (Yes/No)
N-AT1 / 7	10:00pm	52	24	52	1.0 / 267	E	Bird	No
N-AT2 / 8	11:49pm	48	IA	52	1.7 / 309	E	Frogs	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	6	100.0	105.90	N/A	Nil	24/10/2024
	Blast Vibration	mm/s	Every Blast	6	0.54	1.05	N/A	Nil	11/10/2024

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	6	101.92	109.40	N/A	Nil	24/10/2024
	Blast Vibration	mm/s	Every Blast	6	1.28	2.22	N/A	Nil	21/10/2024

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	6	98.10	103.60	120	N/A	21/10/2024
	Blast Vibration	mm/s	Every Blast	6	0.33	0.53	10	N/A	21/10/2024

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	2.6	10.3	20
PM2.5 TEOM ($\mu\text{g}/\text{m}^3$)	Continuous	1	4.7	7.8

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	3.3	9.9	18.5
PM2.5 TEOM ($\mu\text{g}/\text{m}^3$)	Continuous	1	4.2	8.4

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

