



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: April 2025

Obtained Date: 21/05/2025

Publication Date: 22/05/2025

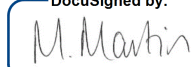
Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by:  524CD8D3818B4C3...	22 May 2025

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	15/04/2025	15/04/2025	-	-	-	5460
	Lead	mg/L		1	15/04/2025	15/04/2025	-	-	-	<0.001
	pH	pH		1	15/04/2025	15/04/2025	-	-	-	7.48
	Standing Water Level	metres		1	15/04/2025	15/04/2025	-	-	-	6.95
16	Conductivity	µS/cm	Six Monthly (April & Oct)	1	15/04/2025	15/04/2025	-	-	-	2510
	Lead	mg/L		1	15/04/2025	15/04/2025	-	-	-	<0.001
	pH	pH		1	15/04/2025	15/04/2025	-	-	-	7.58
	Standing Water Level	metres		1	15/04/2025	15/04/2025	-	-	-	8.04
17	Conductivity	µS/cm	Six Monthly (April & Oct)	1	22/04/2025	22/04/2025	-	-	-	3440
	Lead	mg/L		1	22/04/2025	22/04/2025	-	-	-	<0.001
	pH	pH		1	22/04/2025	22/04/2025	-	-	-	8.05
	Standing Water Level	metres		1	22/04/2025	22/04/2025	-	-	-	8.44
18	Conductivity	µS/cm	Six Monthly (April & Oct)	1	15/04/2025	15/04/2025	-	-	-	2360
	Lead	mg/L		1	15/04/2025	15/04/2025	-	-	-	<0.001
	pH	pH		1	15/04/2025	15/04/2025	-	-	-	7.64
	Standing Water Level	metres		1	15/04/2025	15/04/2025	-	-	-	7.94

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	24/04/2025	24/04/2025	-	-	-	4890
	Lead	mg/L		1	24/04/2025	24/04/2025	-	-	-	<0.001
	pH	pH		1	24/04/2025	24/04/2025	-	-	-	6.32
	Standing Water Level	metres		1	24/04/2025	24/04/2025	-	-	-	16.50
22	Conductivity	μS/cm	Six Monthly (April & Oct)	1	24/04/2025	24/04/2025	-	-	-	25100
	Lead	mg/L		1	24/04/2025	24/04/2025	-	-	-	<0.001
	pH	pH		1	24/04/2025	24/04/2025	-	-	-	7.40
	Standing Water Level	metres		1	24/04/2025	24/04/2025	-	-	-	12.55

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 April 2025 (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	3:32 pm	37	IA	40	1.9 / 125	D	Wind (37), birds (25), VCM (IA)	No
N-AT2 / 8	1:21 pm	50	IA	40	2.4 / 171	D	Birds (50), traffic (35), VCM (IA)	No
Table 5								
VCM Operational Noise Monitoring Results Leq(15min) – 28 April 2025 (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	9:23 pm	35	27	35	1.7 / 97	D	Wind (32), traffic (28), VCM (27)	No
N-AT2 / 8	8:16 pm	44	IA	37	2.5 / 100	D	Traffic (44), insects (30), VCM (IA)	No

Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 28 April 2025 (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	10:01 pm	37	24	35	2.6 / 70	E	Plane (36), Traffic (26), VCM (24)	No
N-AT2 / 8	11:41 pm	38	<20	37	2.5 / 9	E	Traffic (37), insects (28) VCM (<20)	No
Table 7 VCM Operational Noise Monitoring Results LA_{max} – 28 April 2025								
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	10:01 pm	48	32	52	2.6 / 70	E	Birds	No
N-AT2 / 8	11:41 pm	58	20	52	2.5 / 9	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	6	97.2	102.90	N/A	Nil	15/04/2025
	Blast Vibration	mm/s	Every Blast	6	0.34	0.70	N/A	Nil	15/04/2025

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	102.00	107.50	N/A	Nil	15/04/2025
	Blast Vibration	mm/s	Every Blast	6	0.81	1.24	N/A	Nil	15/04/2025

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	96.18	109.70	120	N/A	15/04/2025
	Blast Vibration	mm/s	Every Blast	6	0.15	0.29	10	N/A	29/04/2025

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	2.2	8.3	16.8
PM2.5 TEOM ($\mu\text{g}/\text{m}^3$)	Continuous	0.7	4.1	8.7

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	11.4	27.4
PM2.5 TEOM ($\mu\text{g}/\text{m}^3$)	Continuous	0.8	4.1	7.5

Figure 1 – EPL 21283 Monitoring Locations

