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: January 2024
Obtained Date: 19/02/2024
Publication Date: 23/02/2024

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	-	-	-	-	-	-	-	-
	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	-	-
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
20	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	-
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
21	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	-
	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	17/01/2024	21/02/2024	-	-	-	2840
	Lead	mg/L		1	17/01/2024	21/02/2024	-	-	-	<0.001
	pH	pH		1	17/01/2024	21/02/2024	-	-	-	7.43
	Standing Water Level	metres		1	17/01/2024	21/02/2024	-	-	-	6.53
16	Conductivity	µS/cm	Six Monthly (April & Oct)	1	17/01/2024	21/02/2024	-	-	-	2330
	Lead	mg/L		1	17/01/2024	21/02/2024	-	-	-	<0.001
	pH	pH		1	17/01/2024	21/02/2024	-	-	-	7.73
	Standing Water Level	metres		1	17/01/2024	21/02/2024	-	-	-	7.79
17	Conductivity	µS/cm	Six Monthly (April & Oct)	-	17/01/2024	-	-	-	-	Logger Data available
	Lead	mg/L		-	17/01/2024	-	-	-	-	
	pH	pH		-	17/01/2024	-	-	-	-	
	Standing Water Level	metres		-	17/01/2024	-	-	-	-	
18	Conductivity	µS/cm	Six Monthly (April & Oct)	1	17/01/2024	21/02/2024	-	-	-	3390
	Lead	mg/L		1	17/01/2024	21/02/2024	-	-	-	<0.001
	pH	pH		1	17/01/2024	21/02/2024	-	-	-	7.97
	Standing Water Level	metres		1	17/01/2024	21/02/2024	-	-	-	7.64

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	17/01/2024	21/02/2024	-	-	-	4400
	Lead	mg/L		1	17/01/2024	21/02/2024	-	-	-	<0.001
	pH	pH		1	17/01/2024	21/02/2024	-	-	-	7.05
	Standing Water Level	metres		1	17/01/2024	21/02/2024	-	-	-	16.64

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) – 25th January 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)[1]**
N-AT1 / 7	4:25pm	41	IA	40	2.9 / 244	B	Birds (41), insects (28), **VCM (IA)**	No
N-AT2 / 8	2:02pm	38	IA	40	2.2 / 186	B	Birds (37), traffic (29), insects (25), **VCM (IA)**	No

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Table 5 VCM Operational Noise Monitoring Results Leq(15min) – 25th January 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)[1]**
N-AT1 / 7	6:00pm	40	IA	35	3.5 / 261	D	Birds (40), insects (23), **VCM (IA)**	NA
N-AT2 / 8	9:30pm	48	IA	37	2.1 / 330	E	Insects (48), traffic (30), frogs (28), **VCM (IA)**	No

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 25th January 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)[1]**
N-AT1 / 7	11:33pm	46	25	35	2.8 / 040	E	Insects (46), **VCM (25)**, frogs (24	No
N-AT2 / 8	10:00pm	46	IA	37	2.7 / 222	E	Insects (46), traffic (28), frogs (21), **VCM (IA)**	No

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Table 7 VCM Operational Noise Monitoring Results LA_{max} – 25th January 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)[1]**
N-AT1 / 7	11:33pm	61	29	52	2.8 / 040	E	Insects	No
N-AT2 / 8	10:00pm	58	IA	52	2.7 / 222	E	Insects	No

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

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**	1	99.0	99.0	**133**	**Nil**	25/01/2024
	Blast Vibration	**mm/s**	**Every Blast**	1	0.46	0.46	**10**	**Nil**	25/01/2024

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**	1	102.30	102.30	**N/A**	**Nil**	25/01/2024
	Blast Vibration	**mm/s**	**Every Blast**	1	0.83	0.83	**80**	**Nil**	25/01/2024

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**	1	93.40	93.40	**120**	**Nil**	25/01/2024
	Blast Vibration	**mm/s**	**Every Blast**	1	0.20	0.20	**10**	**Nil**	25/01/2024

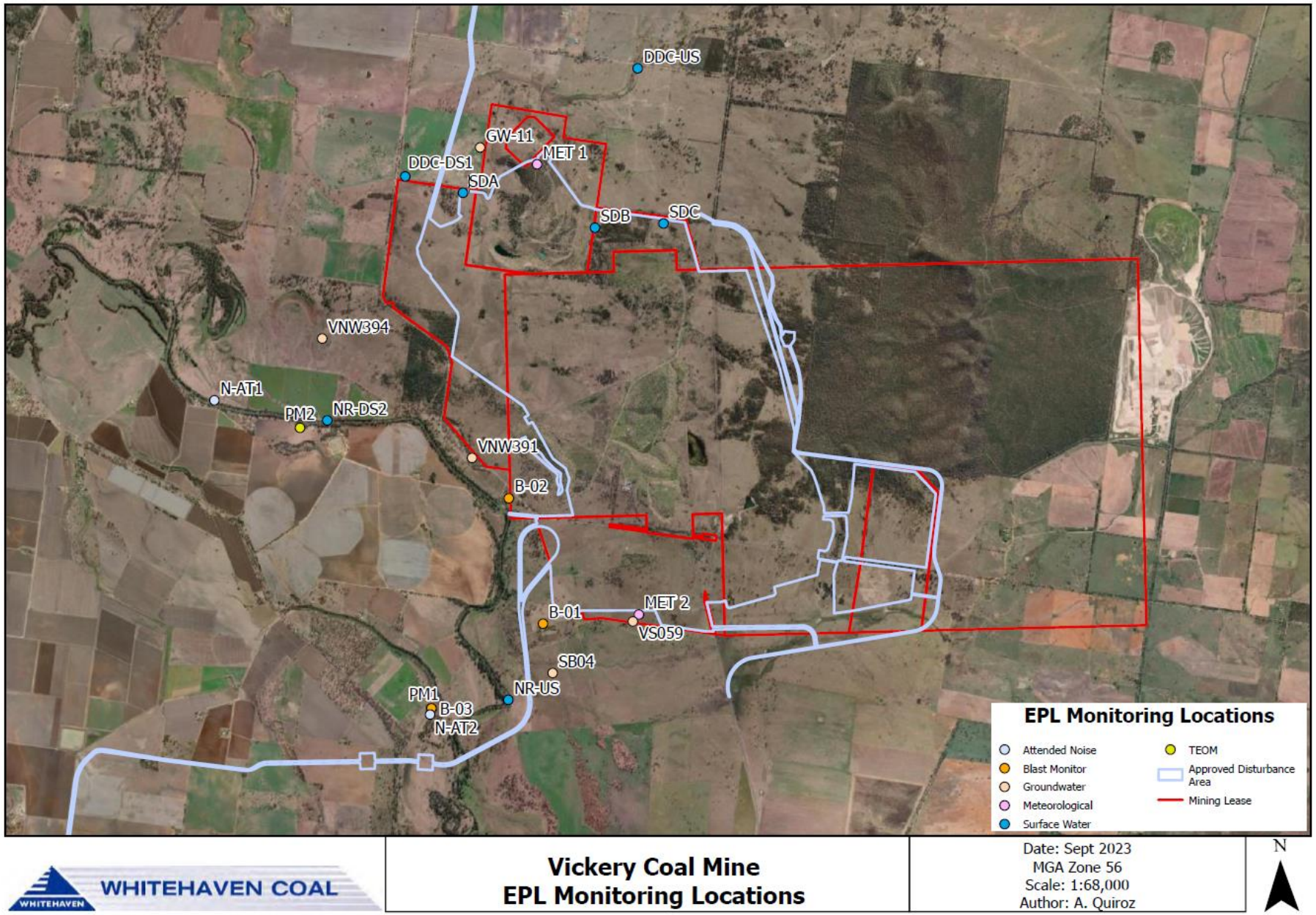
Table 6- Monthly Monitoring (Dust PM10 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	3.4	10.2	21.9
PM2 TEOM (µg/m³)	Continuous	2.8	10.1	17.7

Table 7- Monthly Monitoring (Dust PM2.5 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	0.8	5.06	8.2
PM2 TEOM (µg/m³)	Continuous	1.1	4.5	8.1

Figure 1 – EPL 21283 Monitoring Locations



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: February 2024
Obtained Date: 18/02/2024
Publication Date: 18/02/2024

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	-	-	-	-	-	-	-	-
	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	-	-
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
20	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	-
	Conductivity	µS/cm							NA		
	Oil & Grease	mg/L		-	-	-	-	-	10	-	
	pH	pH		-	-	-	-	-	8.5	-	
21	TSS	mg/L	Upon discharge	-	-	-	-	-	50	-	-
	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) – 26th & 27th February 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)[1]**
N-AT1 / 7	11:47am (27/02/24)	42	IA	40	4.0 / 261	B	Birds (42), aeroplane (27), insects (26), **VCM (IA)**	NA
N-AT2 / 8	4:30pm (26/02/24)	40	IA	40	2.8 / 247	B	Birds (40), traffic (26), insects (22), **VCM (IA)**	No

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 26th February 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)[1]**
N-AT1 / 7	9:30pm	44	24	35	2.8 / 147	D	Insects (43), birds (35), **VCM (24)**	No
N-AT2 / 8	6:00pm	52	IA	37	3.9 / 134	D	Residential (51), birds (45), traffic (29), frogs (28), **VCM (IA)**	NA

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Table 6 VCM Operational Noise Monitoring Results Leq(15min) – 26th February 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)[1]**
N-AT1 / 7	10:00pm	42	22	35	4.5 / 127	D	Insects (42), **VCM (22)**	NA
N-AT2 / 8	12:06am	44	29	37	5.5 / 141	D	Insects (46), traffic (28), frogs (21), **VCM (29)**	NA

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

Measured LA_{max} noise levels for each monitoring location are summarised in **Table 7**.

Table 7 VCM Operational Noise Monitoring Results LA_{max} – 26th February 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)[1]**
N-AT1 / 7	10:00pm	57	25	52	4.5 / 127	D	Insects	NA
N-AT2 / 8	12:06am	64	33	52	5.5 / 141	D	Insects	NA

1. NA in last column means atmospheric conditions outside those specified in EPL, therefore criterion was not applicable.

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**	4	103.4	105.80	**133**	**Nil**	1/02/2024
	Blast Vibration	**mm/s**	**Every Blast**	4	0.37	0.55	**10**	**Nil**	16/02/2024

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**	4	105.58	109.80	**N/A**	**N/A**	1/02/2024
	Blast Vibration	**mm/s**	**Every Blast**	4	0.53	0.63	**80**	**N/A**	16/02/2024

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**	4	97.03	101.40	**120**	**N/A**	1/02/2024
	Blast Vibration	**mm/s**	**Every Blast**	4	0.21	0.29	**10**	**N/A**	12/02/2024

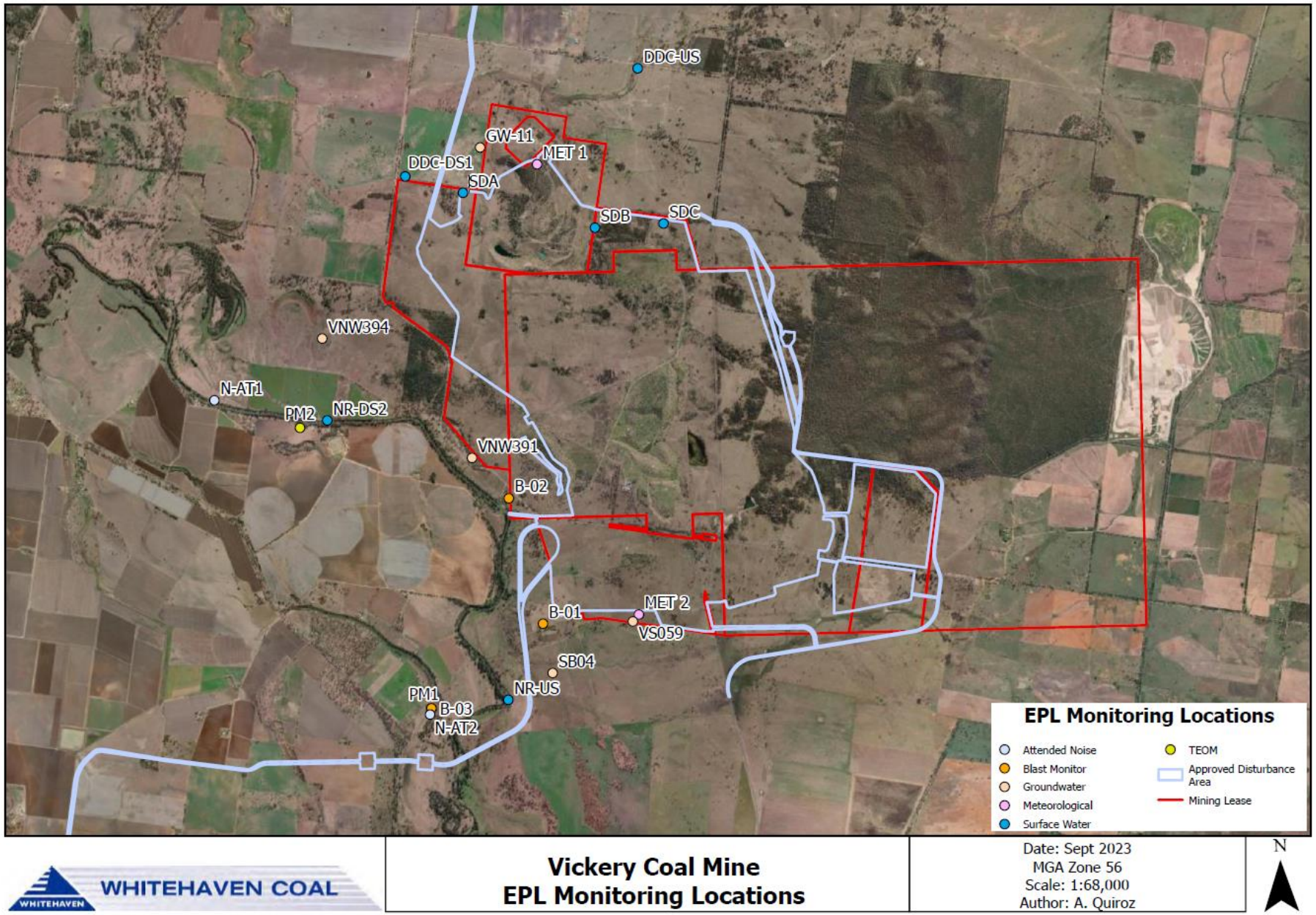
Table 6- Monthly Monitoring (Dust PM10 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	4.8	12.4	27.8
PM2 TEOM (µg/m³)	Continuous	3.9	12.3	25.5

Table 7- Monthly Monitoring (Dust PM2.5 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	0.5	4.9	11.4
PM2 TEOM (µg/m³)	Continuous	1	5.2	10.2

Figure 1 – EPL 21283 Monitoring Locations



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: March 2024
Obtained Date: 4/04/2024
Publication Date: 16/07/2024

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)	-	-	-	-	-	-	-	Low water level – no sample possible
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	
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	21/03/24	21/03/24	-	-	-	-	TSS value not available
	Conductivity	µS/cm		1	21/03/24	21/03/24			-	564	
	Oil & Grease	mg/L		1	21/03/24	21/03/24	-	-	-	5	
	pH	pH		1	21/03/24	21/03/24	-	-	-	8.37	
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) – 11th March 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	4:27pm	40	IA	45[1]	4.2 / 098	C	Birds (40), insects (26), **VCM (IA)**	No
N-AT2 / 8	2:12pm	48	IA	45[1]	4.5 / 097	C	Birds (48), insects (33), traffic (28), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 11th March 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	9:30pm	39	30	35	2.1 / 116	E	Insects (38), **VCM (30)**, frogs (28)	No
N-AT2 / 8	8:18pm	36	29	42[1]	4.9 / 068	D	Insects (34), **VCM (29)**, aeroplane (28), traffic (23)	No

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 11th March 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	36	23	35	2.8 / 149	E	Insects (35), frogs (28), **VCM (23)**	No
N-AT2 / 8	11:53pm	38	25	42[1]	3.5 / 123	D	Insects (37), frogs (26), **VCM (25)**, traffic (22)	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 11th March 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	58	29	52	2.8 / 149	E	Insects	No
N-AT2 / 8	11:53pm	61	33	57[1]	3.5 / 123	D	Insects	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**	3	106.1	108.80	**133**	**Nil**	28/03/2024
	Blast Vibration	**mm/s**	**Every Blast**	3	0.41	0.62	**10**	**Nil**	28/03/2024

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**	3	109.77	113.00	**N/A**	**N/A**	28/03/2024
	Blast Vibration	**mm/s**	**Every Blast**	3	0.82	1.21	**80**	**N/A**	28/03/2024

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**	3	101.50	104.60	**120**	**N/A**	28/03/2024
	Blast Vibration	**mm/s**	**Every Blast**	3	0.21	0.27	**10**	**N/A**	28/03/2024

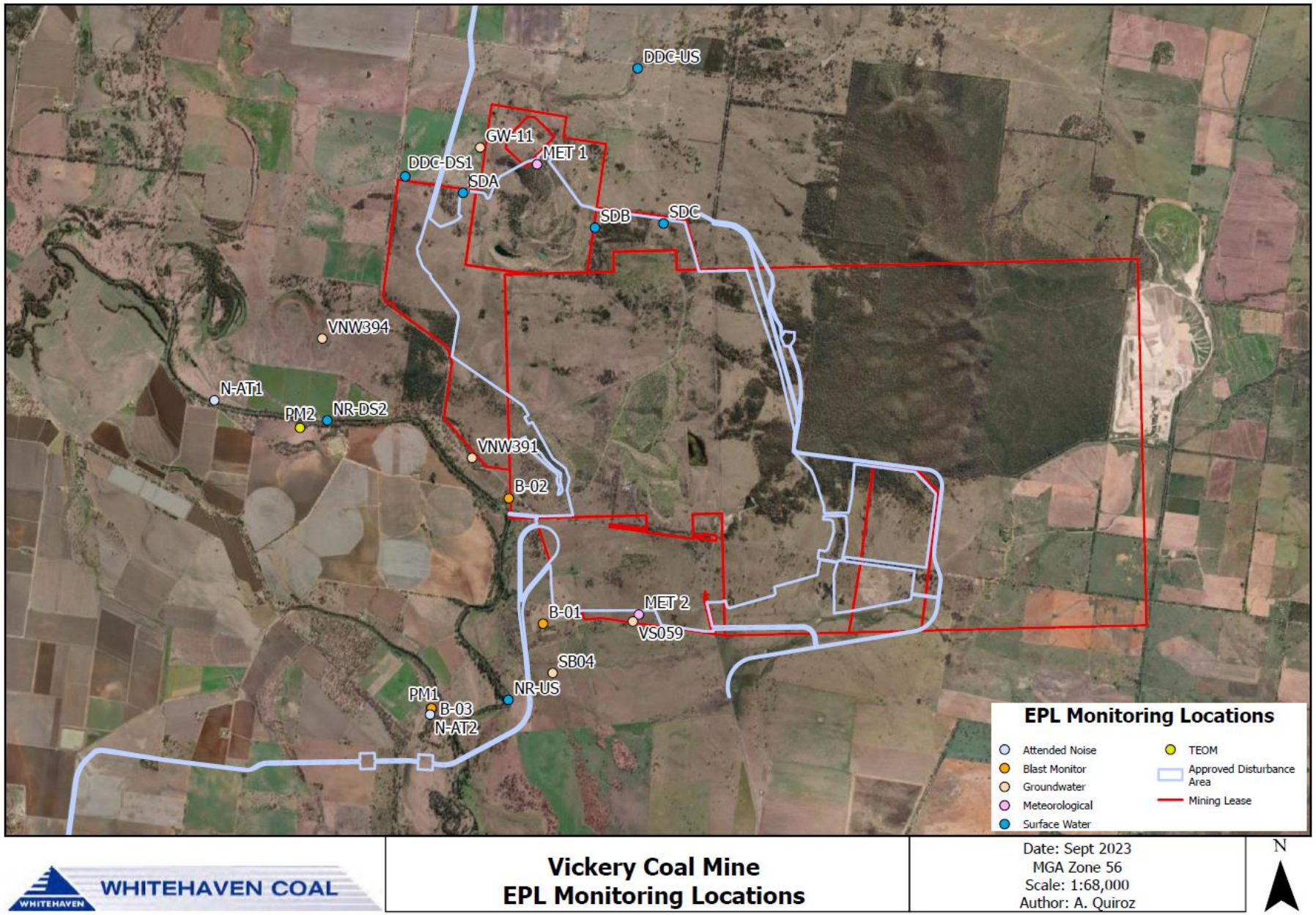
Table 6- Monthly Monitoring (Dust PM10 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	4.8	9.8	19.8
PM2 TEOM (µg/m³)	Continuous	5.2	10.6	23.2

Table 7- Monthly Monitoring (Dust PM2.5 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	1.1	4.1	3.6
PM2 TEOM (µg/m³)	Continuous	1.3	4.1	7.3

Figure 1 – EPL 21283 Monitoring Locations



Month of EPL Report:	Date of Original Publishing:	Date of Correction:	Date of Republishing:	Correction/s made:
March 2024	09/04/2023	16/07/2023	16/07/2023	EPL ID 9 in Table 1 corrected to display TSS.

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: April 2024
Obtained Date: 17/05/2024
Publication Date: 20/05/2024

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	23/04/24	06/05/24	-	-	-	222	-
	Conductivity	µS/cm		1	23/04/24	06/05/24	-	-	-	104	
	Oil & Grease	mg/L		1	23/04/24	06/05/24	-	-	-	<5	
	pH	pH		1	23/04/24	06/05/24	-	-	-	7.24	
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	23/04/24	06/05/24	-	-	-	341	-
	Conductivity	µS/cm		1	23/04/24	06/05/24			-	557	
	Oil & Grease	mg/L		1	23/04/24	06/05/24	-	-	-	<5	
	pH	pH		1	23/04/24	06/05/24	-	-	-	8.6	
10	TSS	mg/L	Upon discharge	1	23/04/24	06/05/24	-	-	-	379	-
	Conductivity	µS/cm		1	23/04/24	06/05/24	-	-	-	593	
	Oil & Grease	mg/L		1	23/04/24	06/05/24	-	-	-	<5	
	pH	pH		1	23/04/24	06/05/24	-	-	-	8.25	

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	15/04/24	15/04/24	-	-	-	5610
	Lead	mg/L		1	15/04/24	15/04/24	-	-	-	<0.001
	pH	pH		1	15/04/24	15/04/24	-	-	-	7.57
	Standing Water Level	metres		1	15/04/24	15/04/24	-	-	-	6.52
16	Conductivity	µS/cm	Six Monthly (April & Oct)	1	17/04/24	17/04/24	-	-	-	2420
	Lead	mg/L		1	17/04/24	17/04/24	-	-	-	<0.001
	pH	pH		1	17/04/24	17/04/24	-	-	-	7.68
	Standing Water Level	metres		1	17/04/24	17/04/24	-	-	-	7.94
17	Conductivity	µS/cm	Six Monthly (April & Oct)	-	15/04/24	-	-	-	-	Logger Data available
	Lead	mg/L		-	15/04/24	-	-	-	-	
	pH	pH		-	15/04/24	-	-	-	-	
	Standing Water Level	metres		-	15/04/24	-	-	-	-	
18	Conductivity	µS/cm	Six Monthly (April & Oct)	1	15/04/24	15/04/24	-	-	-	2000
	Lead	mg/L		1	15/04/24	15/04/24	-	-	-	<0.001
	pH	pH		1	15/04/24	15/04/24	-	-	-	7.84
	Standing Water Level	metres		1	15/04/24	15/04/24	-	-	-	8.18

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	29/04/24	29/04/24	-	-	-	4690
	Lead	mg/L		1	29/04/24	29/04/24	-	-	-	<0.001
	pH	pH		1	29/04/24	29/04/24	-	-	-	6.57
	Standing Water Level	metres		1	29/04/24	29/04/24	-	-	-	16.64

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) – 22nd & 23rd April 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	3:21pm	34	31	45[1]	3.5 / 124	C	**VCM (31)**, traffic (31), insects (21)	No
N-AT2 / 8	9:21am	40	IA	40	1.6 / 141	B	Traffic (40), birds (26), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 22nd April 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	7:07pm	36	34	35	2.3 / 121	E	**VCM (34)**, insects (32)	No
N-AT2 / 8	9:27pm	44	22	37	2.3 / 132	E	Traffic (44), **VCM (22)**, insects (22)	No
Table 6 **VCM Operational Noise Monitoring Results Leq(15min) – 22nd & 23rd April 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	12:10am	35	33	35	2.6 / 125	D	**VCM (33)**, frogs (29), insects (26)	No
N-AT2 / 8	10:00pm	43	25	37	1.9 / 141	E	Traffic (43), **VCM (25)**, frogs (20)	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 22nd & 23rd April 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	12:10am	62	38	52	2.6 / 125	D	Insects	No
N-AT2 / 8	10:00pm	57	30	52	1.9 / 141	E	Car	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**	2	96.5	96.80	**133**	**Nil**	26/04/2024
	Blast Vibration	**mm/s**	**Every Blast**	2	0.31	0.35	**10**	**Nil**	26/04/2024

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**	2	100.85	101.70	**N/A**	**N/A**	26/04/2024
	Blast Vibration	**mm/s**	**Every Blast**	2	0.70	0.81	**80**	**N/A**	26/04/2024

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**	2	91.05	92.40	**120**	**N/A**	26/04/2024
	Blast Vibration	**mm/s**	**Every Blast**	2	0.16	0.19	**10**	**N/A**	26/04/2024

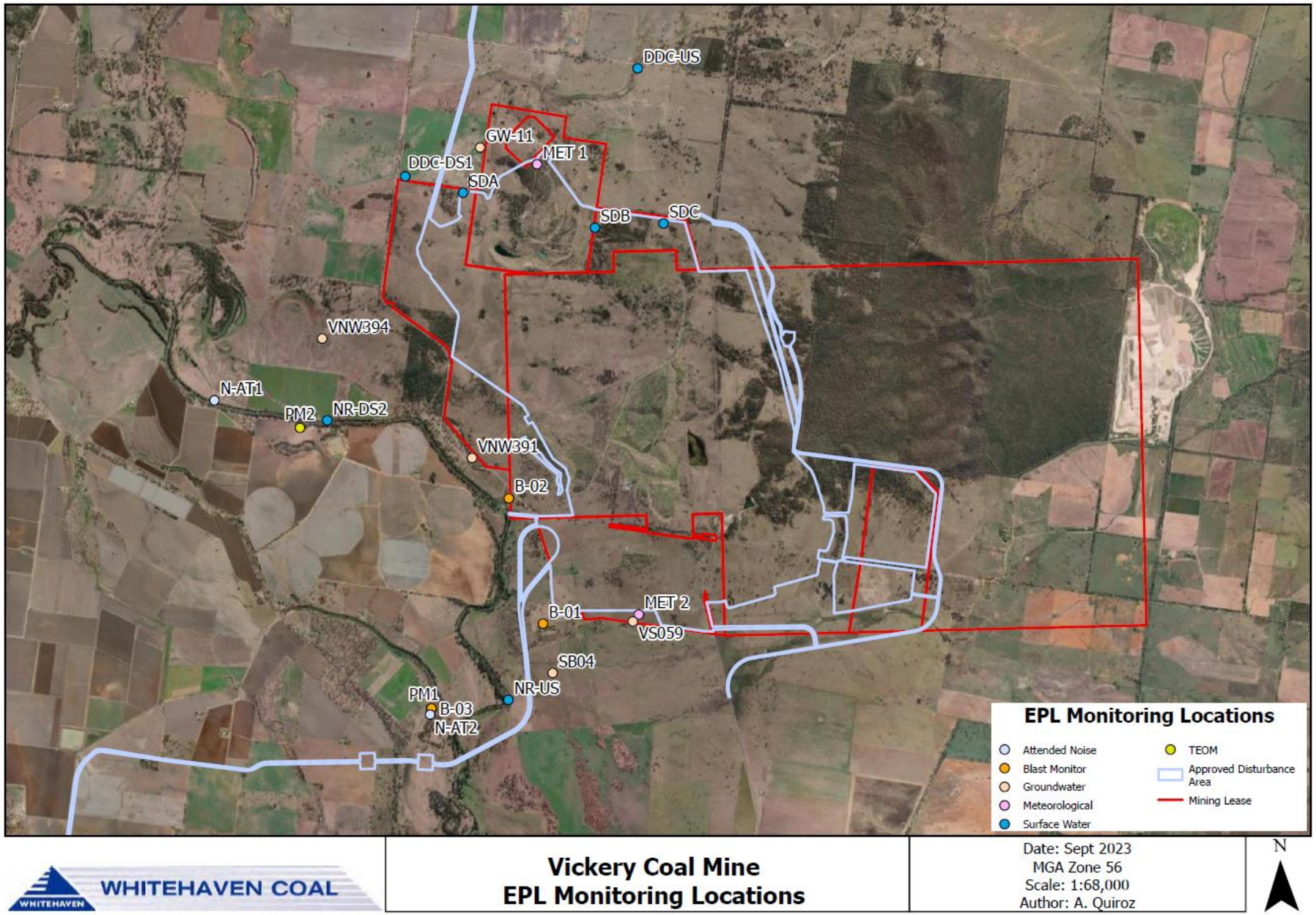
Table 6- Monthly Monitoring (Dust PM10 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	2.8	9.2	18.6
PM2 TEOM (µg/m³)	Continuous	2.5	10	18.8

Table 7- Monthly Monitoring (Dust PM2.5 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	1.5	3.8	7.6
PM2 TEOM (µg/m³)	Continuous	0.2	3.8	8

Figure 1 – EPL 21283 Monitoring Locations



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: May 2024
Obtained Date: 13/06/2024
Publication Date: 17/06/2024

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	23/05/24	23/05/24	-	-	-	565	-
	Conductivity	µS/cm		1	23/05/24	23/05/24	-	-	-	123	
	Oil & Grease	mg/L		1	23/05/24	23/05/24	-	-	-	<5	
	pH	pH		1	23/05/24	23/05/24	-	-	-	7.83	
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	23/05/24	23/05/24	-	-	-	534	-
	Conductivity	µS/cm		1	23/05/24	23/05/24			-	964	
	Oil & Grease	mg/L		1	23/05/24	23/05/24	-	-	-	<5	
	pH	pH		1	23/05/24	23/05/24	-	-	-	8.37	
10	TSS	mg/L	Upon discharge	1	23/05/24	23/05/24	-	-	-	499	-
	Conductivity	µS/cm		1	23/05/24	23/05/24	-	-	-	950	
	Oil & Grease	mg/L		1	23/05/24	23/05/24	-	-	-	<5	
	pH	pH		1	23/05/24	23/05/24	-	-	-	8.56	

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) – 18th May 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	10:02am	33	21	45[1]	3.6 / 165	C	Birds (33), **VCM (21)**	No
N-AT2 / 8	12:11pm	51	IA	45[1]	6.3 / 171	D	Traffic (51), wind in trees (33), birds (26), **VCM (IA)**	No

Table 5

VCM Operational Noise Monitoring Results Leq(15min) – 17th May 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	9:26pm	32	28	35	0.6 / 112	E	Traffic (29), **VCM (28)**, insects (22)	No
N-AT2 / 8	8:19pm	47	IA	37	1.9 / 307	D	Traffic (47), insects (23), **VCM (IA)**	No

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 17th & 18th May 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	12:20am	28	23	35	2.5 / 308	E	Birds (26), **VCM (23)**	No
N-AT2 / 8	10:40pm	46	IA	37	1.8 / 316	E	Traffic (46), **VCM (IA)**	No

Table 7 VCM Operational Noise Monitoring Results LA_{max} – 17th & 18th May 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	12:20am	55	27	52	2.5 / 308	E	Bird	No
N-AT2 / 8	10:40pm	62	IA	52	1.8 / 316	E	Car	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	99.8	102.90	**133**	**Nil**	10/05/2024
	Blast Vibration	**mm/s**	**Every Blast**	6	0.19	0.29	**10**	**Nil**	13/05/2024

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	104.13	107.90	**N/A**	**N/A**	11/05/2024
	Blast Vibration	**mm/s**	**Every Blast**	6	0.28	0.48	**80**	**N/A**	13/05/2024

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	92.66	95.60	**120**	**N/A**	10/05/2024
	Blast Vibration	**mm/s**	**Every Blast**	6	0.11	0.32	**10**	**N/A**	13/05/2024

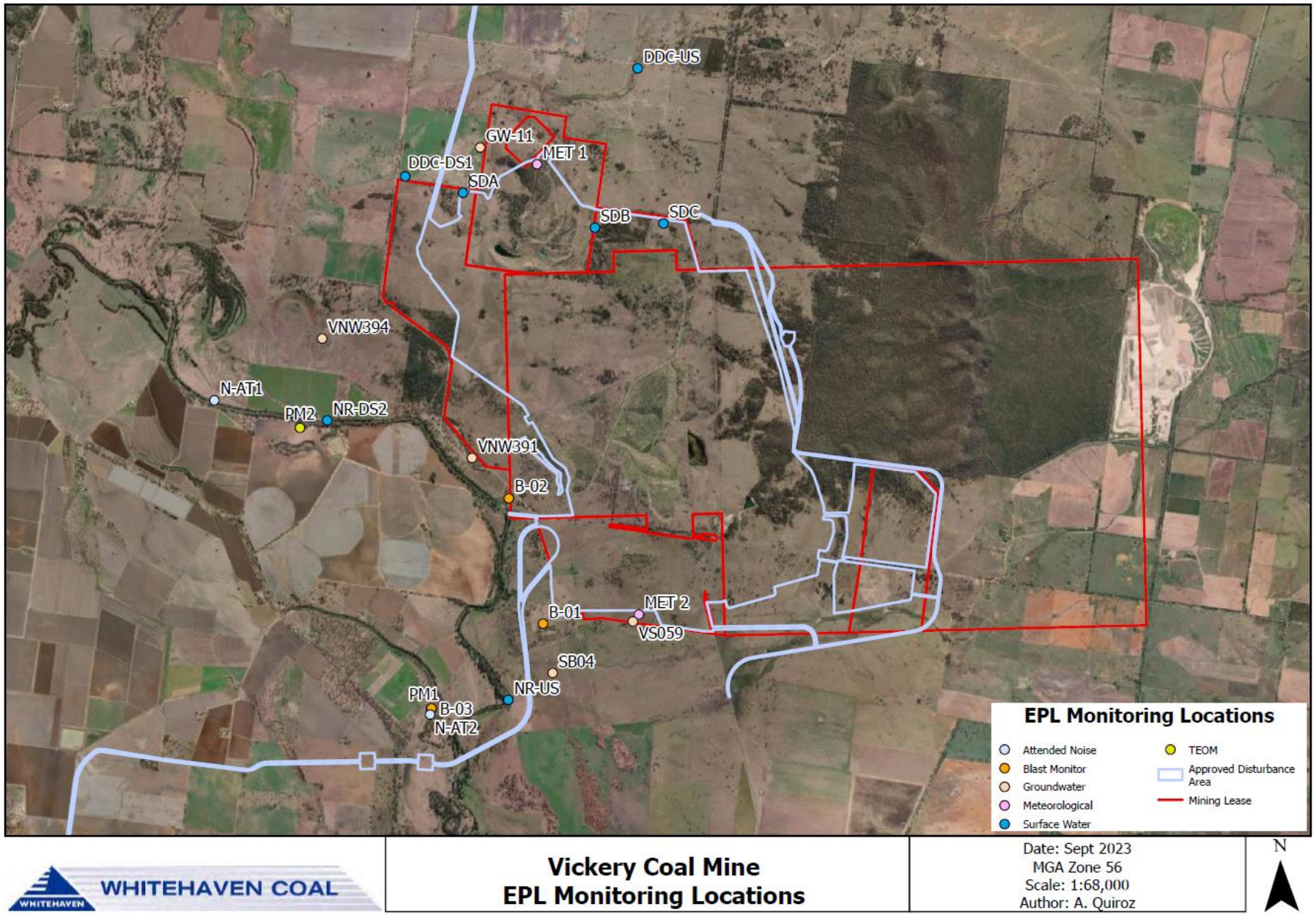
Table 6- Monthly Monitoring (Dust PM10 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	3	7.5	14.5
PM2 TEOM (µg/m³)	Continuous	3	9.6	40.3

Table 7- Monthly Monitoring (Dust PM2.5 – Limits apply)

Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM1 TEOM (µg/m³)	Continuous	0.8	3.7	7.8
PM2 TEOM (µg/m³)	Continuous	0.7	3.3	7.2

Figure 1 – EPL 21283 Monitoring Locations



Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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: 16/07/2024

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by: M. Martin 524CD8D3818B4C3...	July 9, 2024 | 11:34 AM AEST

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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	-	-	-	-	TSS value not available
	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	-	-	-	-	TSS value not available
	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		-	-	-	-	-	-	-	

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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	-	

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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		-	-	-	-	-	-	-

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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		-	-	-	-	-	-	-

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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) – 17th & 18th 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), **VCM (IA)**	No
N-AT2 / 8	2:45pm	45	IA	40	.8 / 242	C	Traffic (44), residential (38), birds (24), **VCM (IA)**	No

Table 5

VCM Operational Noise Monitoring Results Leq(15min) – 17th 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), **VCM (IA)**	No
N-AT2 / 8	9:23pm	42	IA	37	2.5 / 325	E	Traffic (42), dog (22), **VCM (IA)**	No

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Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 17th 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[1]	3.3 / 298	E	Traffic (25), birds (20), **VCM (IA)**	No
N-AT2 / 8	10:00pm	34	IA	42[1]	3.1 / 268	E	Traffic (34), horses (24), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 17th June 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	11:41pm	43	IA	57[1]	3.3 / 298	E	Traffic	No
N-AT2 / 8	10:00pm	50	IA	57[1]	3.1 / 268	E	Traffic	No

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

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	-

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

Table 6- PM1 Monthly Monitoring (Limits apply)

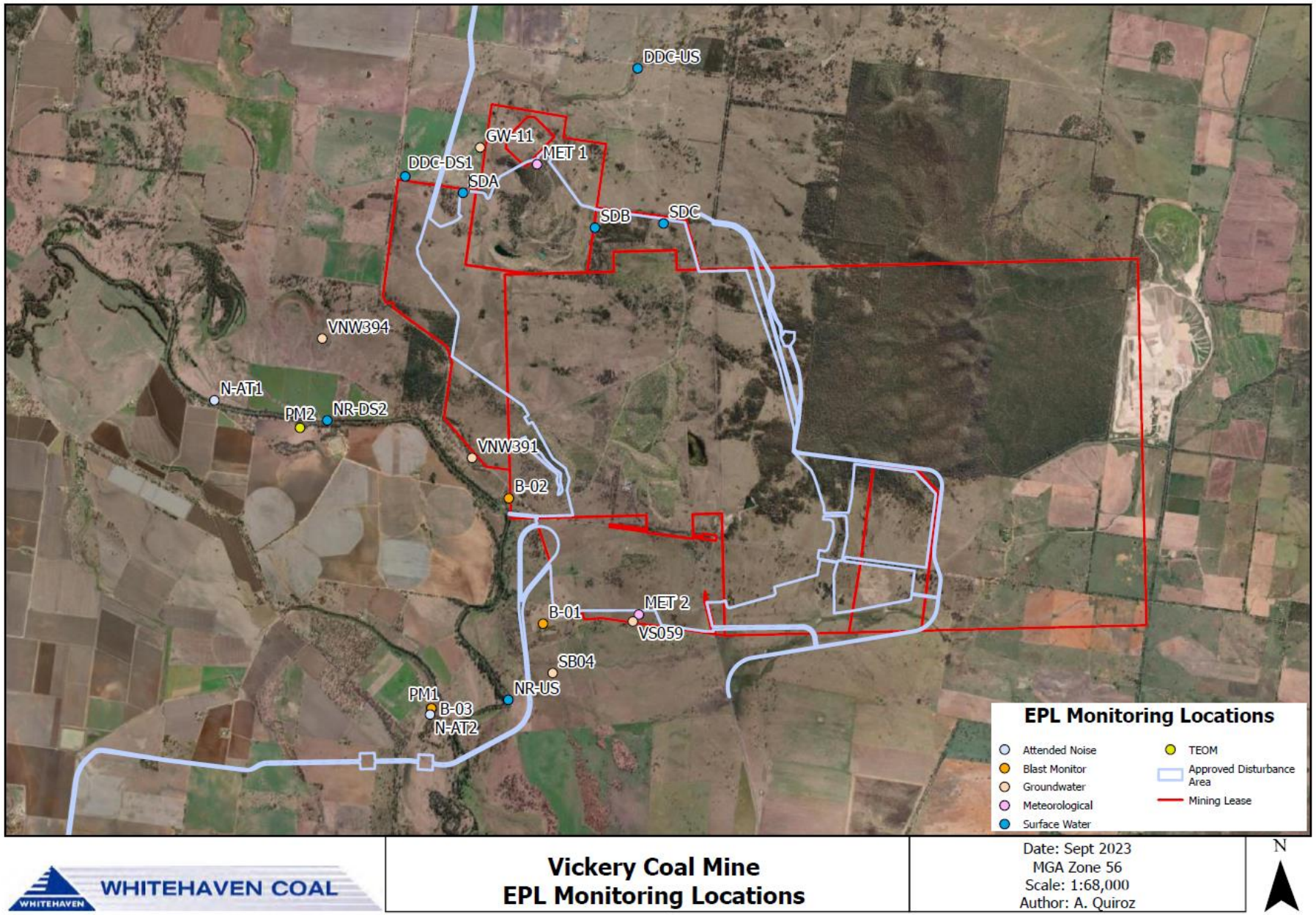
Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	1.8	6.1	12.6
PM2.5 TEOM (µg/m³)	Continuous	1.1	3.6	6.5

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 (µg/m³)	Continuous	1.2	5.4	10.1
PM2.5 TEOM (µg/m³)	Continuous	0.3	2.8	5

Docusign Envelope ID: E04385FD-FAC9-4200-BC9F-A37FCF5B3666

Figure 1 – EPL 21283 Monitoring Locations



Month of EPL Report:	Date of Original Publishing:	Date of Correction:	Date of Republishing:	Correction/s made:
June 2024	09/04/2024	16/07/2024	16/07/2024	EPL ID 2 & 9 in Table 1 corrected to display TSS.

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

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: July 2024
Obtained Date: 14/08/2024
Publication Date: 19/08/2024

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by: M. Martin 524CD8D3818B4C3...	August 19, 2024 | 11:40 AM AEST

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

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		-	-	-	-	-	-	-	

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

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	-	

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

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		-	-	-	-	-	-	-

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

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		-	-	-	-	-	-	-

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

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) – 30th July 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	1:28pm	46	IA	45[1]	5.2 / 169	C	Birds (45), traffic (37), wind in trees (35), **VCM (IA)**	No
N-AT2 / 8	3:46pm	47	IA	45[1]	4.7 / 164	D	Traffic (46), birds (38), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 30th July 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	9:23pm	30	28	35	0.7 / 126	E	**VCM (28)**, frogs (26)	No
N-AT2 / 8	8:16pm	39	25	37	1.4 / 165	F	Traffic (39), **VCM (25)**, frogs (22)	No

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 30th July 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	33	21	35	1.6 / 110	E	Cows (31), frogs (28), **VCM (21)**	No
N-AT2 / 8	11:50pm	41	IA	37	2.1 / 099	D	Horses (39), traffic (37), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 30th July 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	55	24	52	1.6 / 110	E	Cow	No
N-AT2 / 8	11:50pm	68	IA	52	2.1 / 099	D	Horse	No

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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**	1	-	99.40	**N/A**	**Nil**	17/07/2024
	Blast Vibration	**mm/s**	**Every Blast**	1	-	0.16	**N/A**	**Nil**	17/07/2024

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**	1	-	104.60	**N/A**	**Nil**	17/07/2024
	Blast Vibration	**mm/s**	**Every Blast**	1	-	0.31	**N/A**	**Nil**	17/07/2024

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**	1	-	97.00	**120**	**N/A**	17/07/2024
	Blast Vibration	**mm/s**	**Every Blast**	1	-	0.07	**10**	**N/A**	17/07/2024

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

Table 6- PM1 Monthly Monitoring (Limits apply)

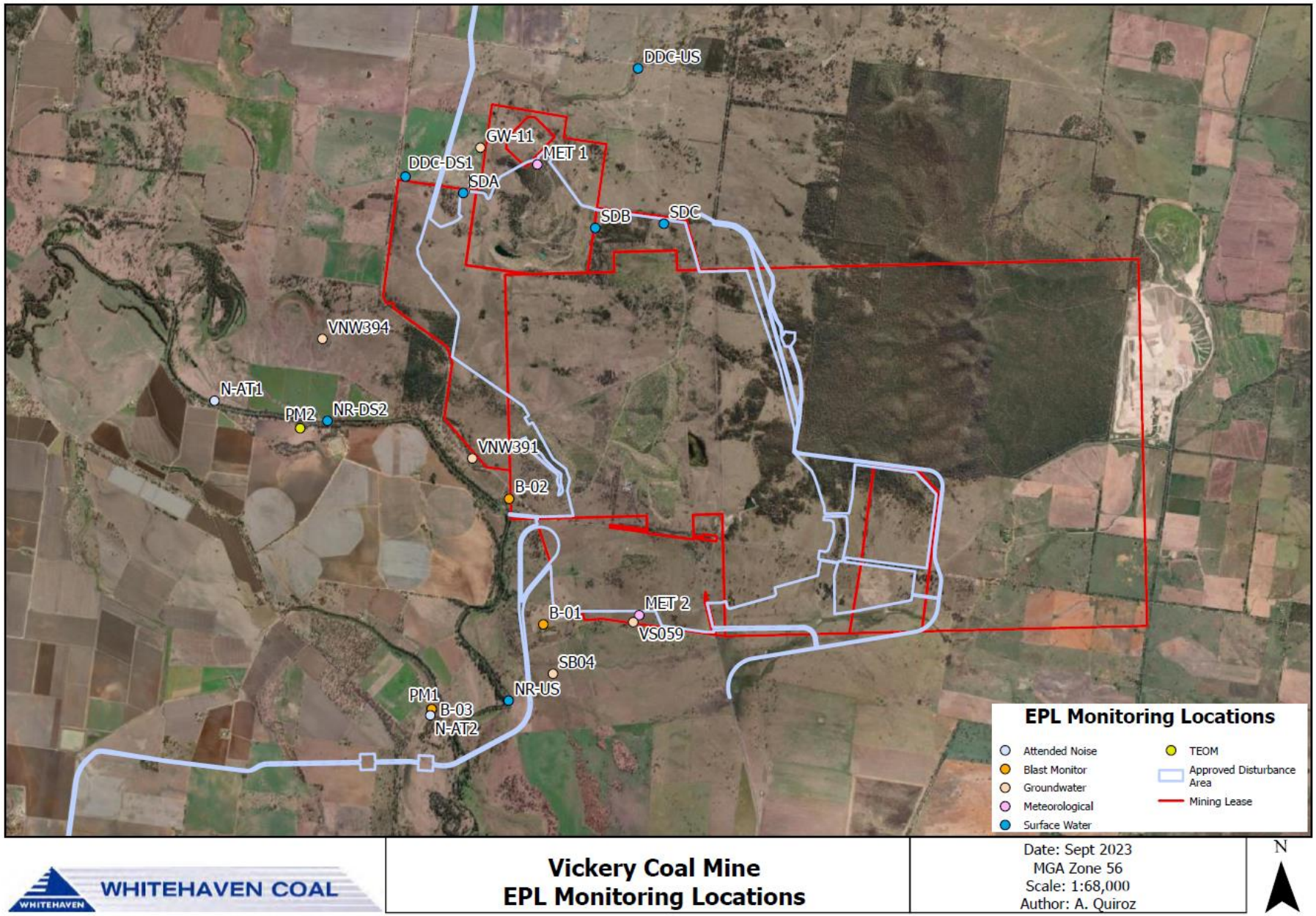
Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	1.5	4.9	9.4
PM2.5 TEOM (µg/m³)	Continuous	0.6	2.9	4.9

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 (µg/m³)	Continuous	1.6	5.3	23.2
PM2.5 TEOM (µg/m³)	Continuous	0.3	2.6	9.8

Docusign Envelope ID: FA43FA2B-8FCA-46B8-8699-2C2A9D889223

Figure 1 – EPL 21283 Monitoring Locations



Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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: August 2024
Obtained Date: 11/09/2024
Publication Date: 18/09/2024

Name	Role	Signature	Date
Harry Mills	Environmental Advisor	DocuSigned by: Harry Mills B65BEB8A5407466...	September 19, 2024 | 7:44 AM AEST

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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		-	-	-	-	-	-	-	

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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	-	

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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		-	-	-	-	-	-	-

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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		-	-	-	-	-	-	-

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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) – 15th August 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	1:57pm	45	IA	40	1.4 / 216	C	Birds (43), frogs (38), traffic (35), **VCM (IA)**	No
N-AT2 / 8	4:12pm	48	IA	40	1.4 / 173	C	Traffic (45), frogs (43), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 15th August 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	9:28pm	32	IA	35	1.7 / 155	D	Traffic (30), wind (26), **VCM (IA)**	No
N-AT2 / 8	8:19pm	43	IA	37	2.3 / 88	E	Frogs (41), Traffic (37), **VCM (IA)**	No

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 15th August 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	10:01pm	33	22	35	0.9 / 158	D	Traffic (30), cattle (30), **VCM (22)**	No
N-AT2 / 8	11:48pm	39	IA	37	1.2 / 165	D	Traffic (37), frogs (34), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 15th August 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	10:01pm	55	26	52	0.9 / 158	D	Bird	No
N-AT2 / 8	11:48pm	61	IA	52	1.2 / 165	D	Horse	No

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

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	101.7	109.70	**N/A**	**Nil**	14/08/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.87	1.61	**N/A**	**Nil**	5/08/2024

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	105.84	115.20	**N/A**	**Nil**	14/08/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	1.27	1.86	**N/A**	**Nil**	5/08/2024

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	98.18	105.10	**120**	**N/A**	14/08/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.47	0.93	**10**	**N/A**	5/08/2024

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

Table 6- PM1 Monthly Monitoring (Limits apply)

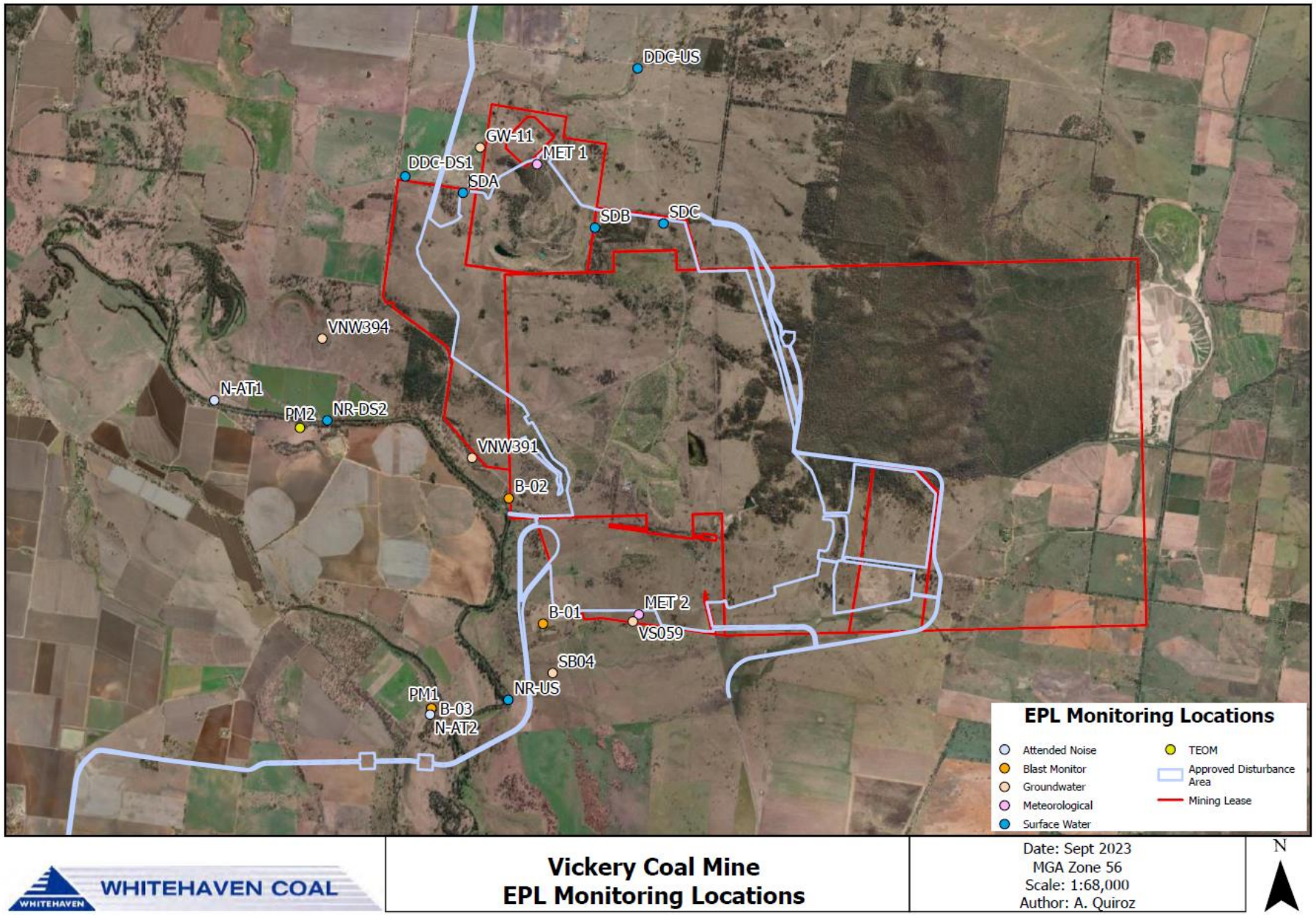
Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	5.1	10.4	19.7
PM2.5 TEOM (µg/m³)	Continuous	2.3	4.9	8.4

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 (µg/m³)	Continuous	2.4	8.2	17.9
PM2.5 TEOM (µg/m³)	Continuous	1.1	4.6	12.6

Docusign Envelope ID: 5E15C644-6FED-4935-9F73-AF36685C9F8D

Figure 1 – EPL 21283 Monitoring Locations



Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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		-	-	-	-	-	-	-	

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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	-	

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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		-	-	-	-	-	-	-

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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		-	-	-	-	-	-	-

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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) – 24th 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), **VCM (IA)**	No
N-AT2 / 8	3:53pm	46	IA	45[1]	3.2 / 301	D	Birds (44), wind (41), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 24th 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[1]	3.6 / 028	E	Wind (28), dogs (26), traffic (25), **VCM (IA)**	No
N-AT2 / 8	8:18pm	38	IA	42[1]	3.6 / 026	E	Traffic (35), wind (34), **VCM (IA)**	No

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 24th 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), **VCM (IA)**	No
N-AT2 / 8	11:40pm	41	IA	37	0.8 / 200	E	Birds (39), traffic (33), insects (33), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 24th September 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	10:02pm	66	IA	52	1.3 / 129	E	Insects	No
N-AT2 / 8	11:40pm	63	IA	52	0.8 / 200	E	Birds	No

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

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

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

Table 6- PM1 Monthly Monitoring (Limits apply)

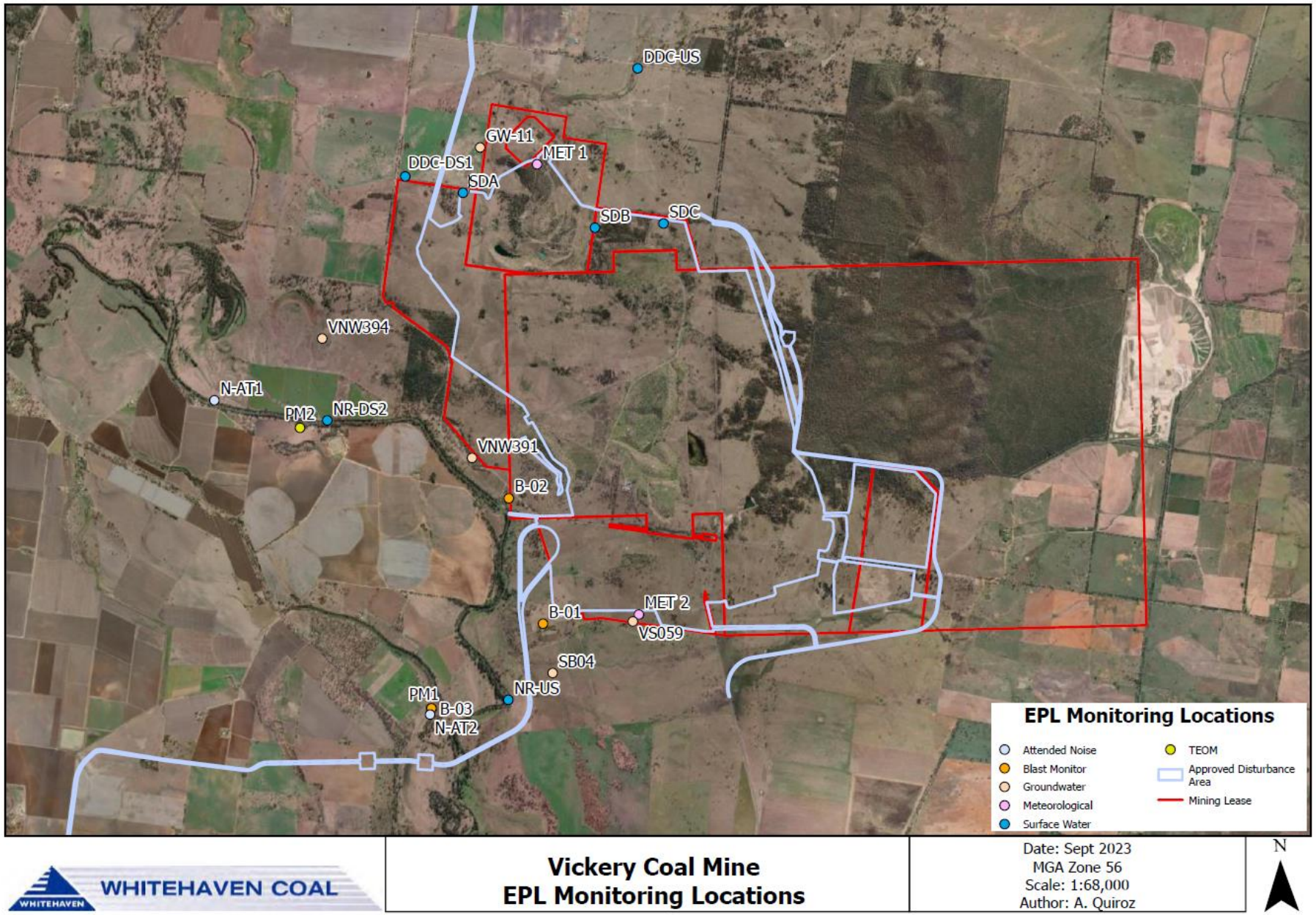
Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	4.6	12.6	20.9
PM2.5 TEOM (µg/m³)	Continuous	2.2	5	8.3

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 (µg/m³)	Continuous	2.5	11	20.9
PM2.5 TEOM (µg/m³)	Continuous	0.2	4.3	12.1

Docusign Envelope ID: E329E6C6-E9C6-46FD-945B-37E5E71347C9

Figure 1 – EPL 21283 Monitoring Locations



Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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	DocuSigned by: M. Martin 524CD8D3818B4C3...	November 25, 2024 | 2:38 PM AEDT

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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		-	-	-	-	-	-	-	

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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	-	

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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) – 28th 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) – 28th 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

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 28th 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} – 28th 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

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

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

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

Table 6- PM1 Monthly Monitoring (Limits apply)

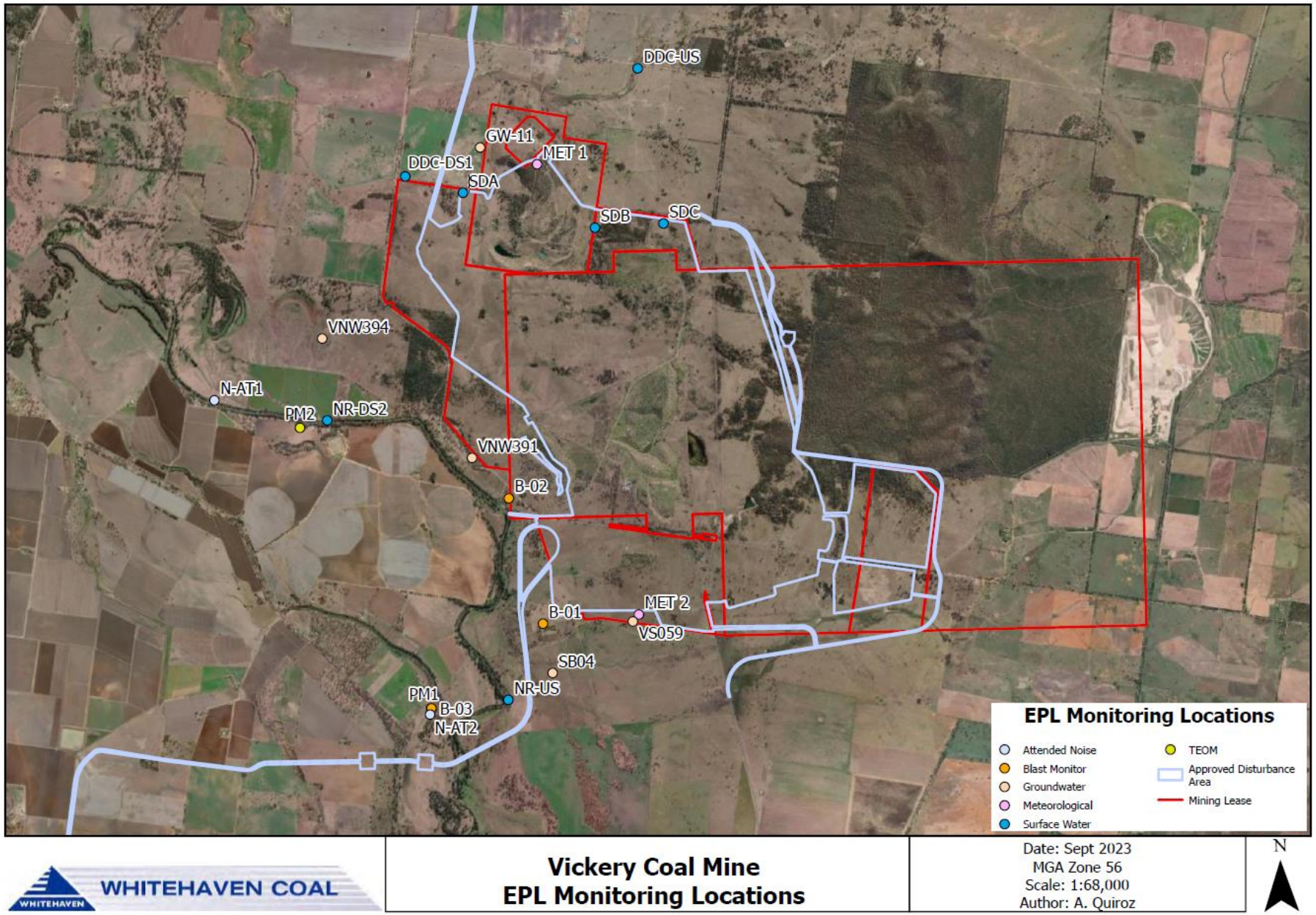
Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m^3)	Continuous	2.6	10.3	20
PM2.5 TEOM (µg/m^3)	Continuous	1	4.7	7.8

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 (µg/m^3)	Continuous	3.3	9.9	18.5
PM2.5 TEOM (µg/m^3)	Continuous	1	4.2	8.4

Docusign Envelope ID: 7AF84E57-9593-4565-8007-56137B6DC3C3

Figure 1 – EPL 21283 Monitoring Locations



Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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: November 2024
Obtained Date: 17/12/2024
Publication Date: 18/12/2024

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by: M.Martin 524CD8D3818B4C3...	December 18, 2024 | 6:53 AM AEDT

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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		-	-	-	-	-	-	-	

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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	-	

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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		-	-	-	-	-	-	-

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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		-	-	-	-	-	-	-

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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) – 26th November 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	8:08am	47	IA	40	1.6 / 20	D	Birds (43), wind (40), **VCM (IA)**	No
N-AT2 / 8	10:24am	48	IA	40	6.1 / 310	D	Traffic (41), frogs (40), **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 25th November 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	9:28pm	30	IA	35	2.1 / 325	E	Wind (29), Traffic (22), **VCM (IA)**	No
N-AT2 / 8	8:14pm	41	IA	37	2.6 / 334	E	Frogs (38), Traffic (36), **VCM (IA)**	No

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 25th November 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	10:01pm	29	IA	35	2.9 / 329	E	Wind (28), Traffic (22), **VCM (IA)**	No
N-AT2 / 8	11:51pm	34	IA	37	2.5 / 358	E	Traffic (31), frogs (30), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 25th November 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	10:01pm	54	IA	52	2.9 / 329	E	Birds	No
N-AT2 / 8	11:51pm	56	IA	52	2.5 / 358	E	Birds	No

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

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	95.5	99.90	**N/A**	**Nil**	25/11/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.41	0.65	**N/A**	**Nil**	14/11/2024

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	100.24	105.70	**N/A**	**Nil**	25/11/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.55	0.84	**N/A**	**Nil**	14/11/2024

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	94.30	96.30	**120**	**N/A**	25/11/2024
	Blast Vibration	**mm/s**	**Every Blast**	5	0.18	0.37	**10**	**N/A**	14/11/2024

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

Table 6- PM1 Monthly Monitoring (Limits apply)

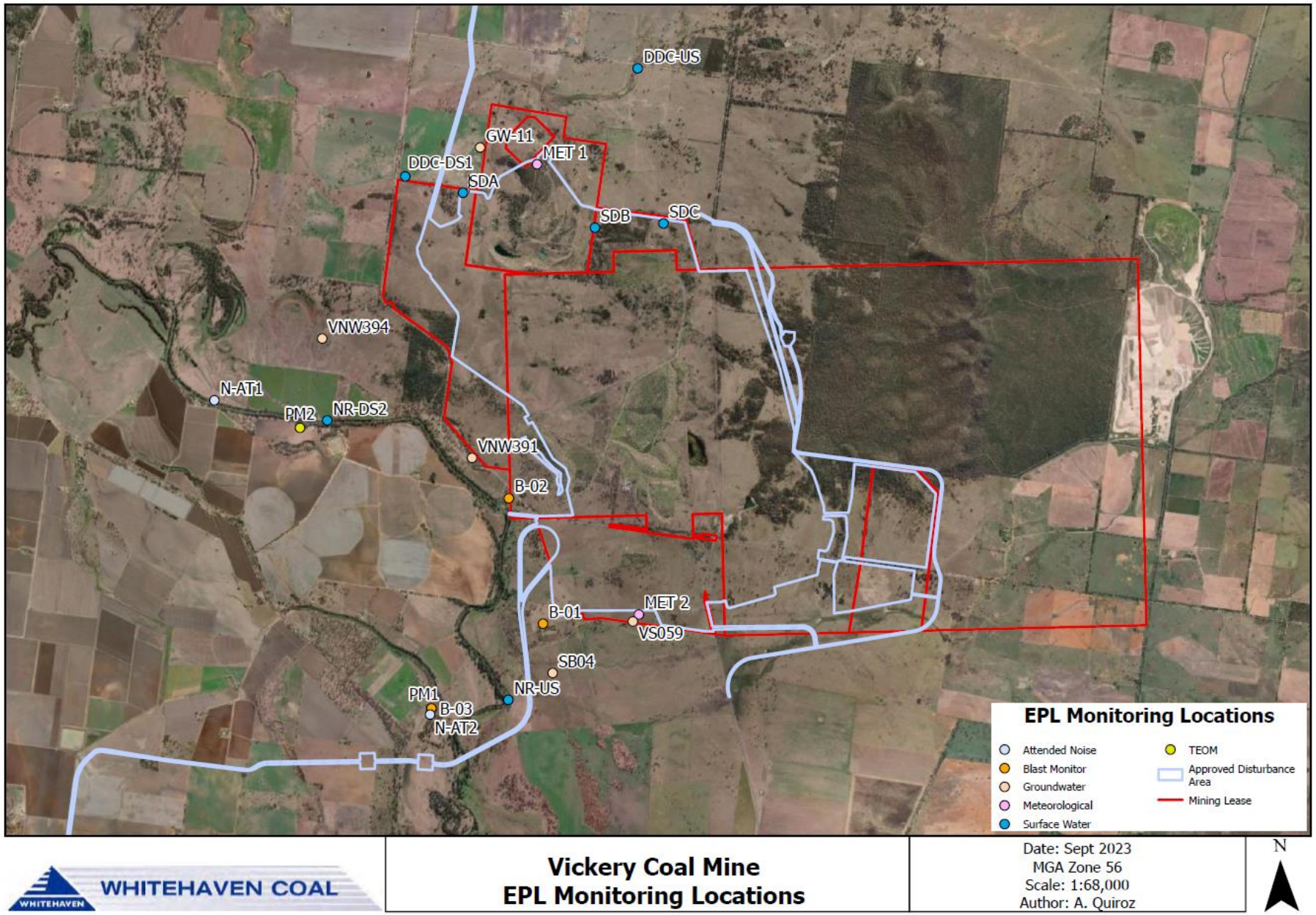
Location	No. of samples required by licence	Lowest sample value	Mean of sample	Highest sample value
PM10 TEOM (µg/m³)	Continuous	4	14.1	36.9
PM2.5 TEOM (µg/m³)	Continuous	1.2	6	11.7

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 (µg/m³)	Continuous	6.8	15.8	32.1
PM2.5 TEOM (µg/m³)	Continuous	2.2	7.8	25.2

Docusign Envelope ID: 9FED0A68-F669-4836-9A30-D9DC4F9B3D05

Figure 1 – EPL 21283 Monitoring Locations



Docusign Envelope ID: 39926E3F-63D3-4142-86A3-5A4F7416CF68

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: December 2024
Obtained Date: 16/01/2025
Publication Date: 17/01/2025

Name	Role	Signature	Date
Megan Martin	Environmental Superintendent	DocuSigned by: M. Martin 524CD8D3818B4C3...	January 16, 2025 | 3:34 PM AEDT

Docusign Envelope ID: 39926E3F-63D3-4142-86A3-5A4F7416CF68

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	19/12/24	19/12/24	-	-	-	76	-
	Conductivity	µS/cm		1	19/12/24	19/12/24	-	-	-	678	
	Oil & Grease	mg/L		1	19/12/24	19/12/24	-	-	-	<5	
	pH	pH		1	19/12/24	19/12/24	-	-	-	7.89	
10	TSS	mg/L	Upon discharge	-	-	-	-	-	-	-	No discharge
	Conductivity	µS/cm		-	-	-	-	-	-	-	
	Oil & Grease	mg/L		-	-	-	-	-	-	-	
	pH	pH		-	-	-	-	-	-	-	

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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	-	

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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		-	-	-	-	-	-	-

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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		-	-	-	-	-	-	-

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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) – 23rd December 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	1:11 pm	53	IA	45	6.4 / 263	B	Wind (53), **VCM (IA)**	No
N-AT2 / 8	3:28 am	55	IA	45	7.2 / 248	B	Wind (55) **VCM (IA)**	No
Table 5 **VCM Operational Noise Monitoring Results Leq(15min) – 23rd December 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	9:26 pm	48	IA	40	5.1 / 225	C	Wind (48), **VCM (IA)**	No
N-AT2 / 8	8:14 pm	46	IA	42	4.3 / 241	C	Wind (45), Traffic (37), **VCM (IA)**	No

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Table 6

VCM Operational Noise Monitoring Results Leq(15min) – 23rd December 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	10:00 pm	39	IA	40	3.6 / 236	D	Wind (39), **VCM (IA)**	No
N-AT2 / 8	11:43 pm	44	IA	42	4.3 / 225	D	Wind (44) Traffic (33), **VCM (IA)**	No

Table 7

VCM Operational Noise Monitoring Results LA_{max} – 23rd December 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	10:00 pm	48	IA	57	3.6 / 236	D	Birds	No
N-AT2 / 8	11:43 pm	53	IA	57	4.3 / 225	D	Wind	No

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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**	4	101.3	103.90	**N/A**	**Nil**	16/12/2024
	Blast Vibration	**mm/s**	**Every Blast**	4	0.31	0.55	**N/A**	**Nil**	23/12/2024

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**	4	102.53	109.30	**N/A**	**Nil**	16/12/2024
	Blast Vibration	**mm/s**	**Every Blast**	4	0.63	0.95	**N/A**	**Nil**	23/12/2024

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**	4	97.55	99.60	**120**	**N/A**	9/12/2024
	Blast Vibration	**mm/s**	**Every Blast**	4	0.16	0.25	**10**	**N/A**	9/12/2024

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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 (µg/m³)	Continuous	4.4	13.1	21.9
PM2.5 TEOM (µg/m³)	Continuous	0.2	4.5	13.2

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 (µg/m³)	Continuous	8.6	13.3	21.4
PM2.5 TEOM (µg/m³)	Continuous	1.6	6.7	11.2

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Figure 1 – EPL 21283 Monitoring Locations