

# Maxwell Underground Coal Mine Project Environmental Monitoring Data February 2023

# 1 INTRODUCTION

The Maxwell Underground Coal Mine Project is owned by Maxwell Ventures (Management) Pty Limited. This report has been compiled to present environmental monitoring data for the Maxwell Underground Coal Mine Project Environment Protection Licence 1323. This report complies with Section 66(6) of the *Protection of the Environment Operations Act 1997*.

A summary of the Licence details is provided in Table 1.

Environment Protection Licence Number	1323
Licensee Details	Maxwell Ventures (Management) Pty Limited Private Mail Bag 9 Muswellbrook NSW 2333
Premises	Maxwell Underground Coal Mine Project Thomas Mitchell Drive Muswellbrook NSW 2333
Link to the EPA Register	http://app.epa.nsw.gov.au/prpoeoapp/
Reporting Month	February 2023
Date of Publication	24 March 2023
Version	1
Correction Log	-

Table 1. A summary of licence and report details

# 2 MONITORING RESULTS

Air quality monitoring results are provided in **Table 2**.

Blast monitoring results are provided in Table 3

Noise monitoring results are provided in Table 4.

A map of the monitoring locations is provided in **Appendix 1**.



#### Table 2. Air quality monitoring results for February 2023

EPA identification no.	Sampling point	Sampling period start date	Sampling period finished date	Unit of measure	Averaging period	Monitoring frequency	Minimum value	Mean value	Median value	Maximum value
8	ES-01	01/02/2023	28/02/2023	micrograms per cubic metre	5 minutes	Continuous	0	15	12	296
9	ES-02	01/02/2023	28/02/2023	micrograms per cubic metre	5 minutes	Continuous	0	13	12	96
10	ES-03	01/02/2023	28/02/2023	micrograms per cubic metre	5 minutes	Continuous	0	13	11	84
11	ES-04	01/02/2023	28/02/2023	micrograms per cubic metre	5 minutes	Continuous	0	14	13	74

Results for sites ES-02 and ES-03 now include the new Palas AQ-Guard Smart devices, installed 27/1/23 for ES-02 and 30/1/23 for ES-03. Sites ES-01 and ES-04 continue to have the Met One E-Sampler device.

#### Table 3. Blast monitoring results for February 2023

EPA identification no.	Sampling point	Time and Date of blast	Date data obtained	Monitored variable	Unit of measure	Averaging period	Measured value*	100 percentile limit for all blasts during each reporting period	95 percentile limit for all blasts during reporting period	Exceedance (yes/no)	Observations
13	Monitoring location BM1 (Antiene)	No blast during reporting period	-	Airblast overpressure	dB (Lin Peak)	Instantaneous	-	120	115	-	-
14	Monitoring location BM2 (Plashett)	-					-			-	-
15	Monitoring location BM3 (Bowfield)	-					-			-	-
13	Monitoring location BM1 (Antiene)			Ground vibration peak particle velocity	mm/second	Instantaneous	-	10	5	-	-
14	Monitoring location BM2 (Plashett)						-			-	-
15	Monitoring location BM3 (Bowfield)						-			-	-

\* The measured value presented is the maximum measured value 15 minutes prior to and 15 minutes after the blast. Whilst the blast monitor measures continuously, measured levels were either very low or did not exceed background levels, and hence no specific measurements can be attributed to the blast. The reporting period for the EPL is 1 May to 30 April each year.



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## Table 4. Noise monitoring results for 15 February 2023

EPA identification no.		Day (L <sub>A eq</sub>	Day (LA eq (15 minute))		Evening (L <sub>A eq (15</sub> minute))		Night (L <sub>A eq (15 minute)</sub> )		Night (LA1 (1 minute))		suo
	Sampling point	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	64	41	59	41	55	52	84	No	Project inaudible
17	NM2	44	46	40	44	40	37	52	46	No	Project inaudible
18	NM3	40	50	35	56	35	46	52	71	No	Project inaudible
-	NM4	40	65	35	67	35	58	52	85	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 March 2023										
Weather Conditions	Wind speed 2.4 – 6.4 m/s. No rain during monitoring.										
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, frogs, ar	id insects. ⊺	The Maxwell L	Inderground	Coal Mine Pro	oject was ir	audible at	all locations



## Table 5. Noise monitoring results for 16 February 2023

EPA identification no.		Day (LA eq (15 minute))		Evening (L <sub>A eq (15</sub> minute))		Night (L <sub>A eq (</sub> 15 minute))		Night (LA1 (1 minute))		Э	suo
	Sampling point	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	67	41	60	41	63	52	89	No	Project inaudible
17	NM2	44	44	40	47	40	39	52	58	No	Project inaudible
18	NM3	40	55	35	60	35	55	52	70	No	Project inaudible
-	NM4	40	65	35	67	35	61	52	86	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 March 2023										
Weather Conditions	Wind speed 2.1 – 5.8 m/s. No rain during monitoring.										
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, frogs, ar	id insects.	The Maxwell L	Inderground	Coal Mine Pro	ject was in	audible at	all locations



## Table 6. Noise monitoring results for 17 February 2023

EPA identification no.		Day (LA eq (15 minute))		Evening (L <sub>A eq (15</sub> minute))		Night (L <sub>A eq (</sub> 15 minute))		Night (LA1 (1 minute))		e	suo
	Sampling point	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	60	41	60	41	63	52	88	No	Project inaudible
17	NM2	44	43	40	46	40	33	52	52	No	Project inaudible
18	NM3	40	56	35	55	35	46	52	70	No	Project inaudible
-	NM4	40	72	35	63	35	56	52	85	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 March 2023										
Weather Conditions	Wind speed 2.0 – 8.3 m/s. No rain during monitoring.										
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, frogs, ar	d insects.	The Maxwell L	Inderground	Coal Mine Pro	oject was ir	audible at	all locations





