

## Maxwell Underground Coal Mine Project

Environmental Monitoring Data September 2022

## 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**.

Table 1. A summary of licence and report details

Table 1. A summary of licence and report details								
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	September 2022							
Date of Publication	20 October 2022							
Version	1							
Correction Log	-							

## 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.

Maps of monitoring locations are provided in **Appendix 1**.



Table 2. Air quality monitoring results for September 2022

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	01/09/2022	30/09/2022	micrograms per cubic metre	5 minutes	Continuous	0	26	7	4315
9	ES-02	01/09/2022	30/09/2022	micrograms per cubic metre	5 minutes	Continuous	0	9	8	63
10	ES-03	01/09/2022	30/09/2022	micrograms per cubic metre	5 minutes	Continuous	0	3489	3864	4257
11	ES-04	01/09/2022	30/09/2022	micrograms per cubic metre	5 minutes	Continuous	0	10	9	38

As stated in previous reports, a large range of values from the E-Sampler at site ES-03 have been recorded and are deemed spurious. Monthly scheduled calibrations note a 'Solenoid error' on the operating screen; all other checks passed (leak check, temperature, pressure, flow, battery etc). The same scheduled calibrations for ES-02 recorded a 'Detector error' however there is less effect on the data. Due to the ongoing issues with the E-Samplers and a lack of alternative hire equipment, Malabar conducted a review of alternatives, obtained a quotation for a replacement and in June 2022 submitted an application to the EPA to vary the EPL to permit an alternative to the E-Sampler. Malabar has continued to closely monitor the situation with these equipment and received an EPL amendment to enable the replacement of the faulty equipment. In September 2022 Malabar issued a purchase order to a supplier for the provision of two new PALAS AQ Smart devices, following receipt of funds, the supplier advised that Goods were ordered on 17 October 2022; the lead time is estimated as being 6–8 weeks plus delivery time. An update will be provided in subsequent reports.

Table 3. Blast monitoring results for September 2022

Table 5. Diast	monitoring re	suits for Sept	ember zuzz							
EPA identification no.	Sampling point	Time and Date of blast	Date final report obtained	Unit of measure	Averaging period	Measured value	100 percentile limit	95 percentile limit	Exceedance (yes/no)	Observations
13	Monitoring location BM1									
14	Monitoring location BM2				No blasting occ	curred during S	September 2022	2		
15	Monitoring location BM3									



Table 4. Noise monitoring results for 12 September 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (LA eq (15 minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		ео	ions
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	69	41	66	41	63	52	88	No	Project inaudible
17	NM2	44	43	40	41	40	40	52	71	No	Project inaudible
18	NM3	40	53	35	54	35	51	52	73	No	Project inaudible
-	NM4	40	71	35	69	35	66	52	89	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 October 2022										
Weather Conditions	Wind speed 1.9–5.1 m/s. No rain during monitoring.										
Notes	Measured noise so locations and times		ed traffic, bird	ds, frogs, do	ogs, and ins	ects. The Max	well Underg	round Coal Mi	ne Project	was inaud	ible at all



Table 5. Noise monitoring results for 13 September 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L <sub>A eq (</sub> 15 minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		ce	ions
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	68	41	65	41	62	52	88	No	Project inaudible
17	NM2	44	41	40	42	40	40	52	58	No	Project inaudible
18	NM3	40	56	35	55	35	53	52	79	No	Project inaudible
-	NM4	40	66	35	70	35	47	52	73	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 October 2022										
Weather Conditions	Wind speed 1.5–12.5 m/s. No rain during monitoring.										
Notes	Measured noise so all locations and tir		ed traffic, frei	ght train, bi	rds, frogs, a	and insects. Th	ne Maxwell L	Inderground C	Coal Mine F	Project was	inaudible at



Table 6. Noise monitoring results for 14 September 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L <sub>A eq (15</sub> minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	68	41	67	41	31	52	50	No	Project inaudible
17	NM2	44	40	40	40	40	41	52	68	No	Project inaudible
18	NM3	40	56	35	55	35	49	52	73	No	Project inaudible
-	NM4	40	69	35	65	35	66	52	90	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 October 2022										
Weather Conditions	Wind speed 2.1–5.9 m/s. No rain during monitoring.										
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, insects,	and frogs. ٦	The Maxwell U	Inderground	Coal Mine Pro	ject was ir	audible at	all locations



## APPENDIX 1 – MAPS OF MONITORING LOCATIONS







