

Maxwell Underground Coal Mine Project

Environmental Monitoring Data March 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

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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	March 2022							
Date of Publication	6 April 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 March 2022

li .	point	eriod	eriod		period	requency	alue		d	alue
EPA identification no.	Sampling po	Sampling pe start date	Sampling per finished date	Unit of measure	Averaging po	Monitoring fr	Minimum val	Mean value	Median value	Maximum va
8	ES-01	01/03/2022	31/03/2022	micrograms per cubic metre	5 minutes	Continuous	0	18	13	3462
9	ES-02	01/03/2022	31/03/2022	micrograms per cubic metre	5 minutes	Continuous	0	8	8	62
10	ES-03	01/03/2022	31/03/2022	micrograms per cubic metre	5 minutes	Continuous	0	19	4	1006
11	ES-04	01/03/2022	31/03/2022	micrograms per cubic metre	5 minutes	Continuous	0	11	11	46

As stated in the January 2022 report, a replacement sampler (a Thermo Scientific ADR-1500) was installed at ES-03 on 3 February 2022. This was due to a large range of recorded values which were deemed spurious. A replacement E-Sampler was not available, hence a Thermo Scientific ADR-1500 was installed; this works on the same light scattering principle as the E-Sampler. Due to an issue with the solar panel controller, the ADR-1500 did not record data from 28/03/2022 to 5/04/2022.

Table 3. Blast monitoring results for March 2022

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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 o	occurred during	g March 2022				
15	Monitoring location BM3										



Table 4. Noise monitoring results for 16 March 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L _{A eq (15} minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		es	ons
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	67	41	64	41	59	52	82	No	Project inaudible
17	NM2	44	41	40	44	40	46	52	57	No	Project inaudible
18	NM3	40	54	35	56	35	54	52	70	No	Project inaudible
-	NM4	40	72	35	67	35	60	52	89	No	Project inaudible
Additional Informa	ation										
Date of Final Report	5 April 2022										
Weather Conditions	Wind speed 2.3–6.5 m/s. No rain during monitoring.										
Notes	Measured noise so times.	ources include	ed traffic, bird	ds, insects,	frogs. The I	Maxwell Unde	rground Coa	l Mine Project	was inaud	ible at all lo	ocations and



Table 5. Noise monitoring results for 17 March 2022

EPA identification no.	Sampling point	Day (LA eq (15 minute))		Evening (L _{A eq (15} 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	67	41	62	41	61	52	88	No	Project inaudible
17	NM2	44	52	40	44	40	44	52	53	No	Project inaudible
18	NM3	40	50	35	56	35	52	52	68	No	Project inaudible
-	NM4	40	71	35	70	35	64	52	89	No	Project inaudible
Additional Informa	ation				•		•				
Date of Final Report	5 April 2022										
Weather Conditions	Wind speed 2.0–3.2 m/s. No rain during monitoring.										
Notes	Measured noise so times.	urces include	ed traffic, bird	ds, insects,	frogs. The I	Maxwell Unde	rground Coa	l Mine Project	was inaud	ible at all lo	ocations and



Table 6. Noise monitoring results for 18 March 2022

EPA	Sampling point	Day (LA eq (15 minute))		Evening (LA eq (15 minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eol	ions
identification no.		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	68	41	61	41	49	52	78	No	Project inaudible
17	NM2	44	42	40	41	40	45	52	60	No	Project inaudible
18	NM3	40	53	35	56	35	50	52	68	No	Project inaudible
-	NM4	40	72	35	69	35	57	52	86	No	Project inaudible
Additional Informa	ation								·		
Date of Final Report	5 April 2022										
Weather Conditions	Wind speed 1.6–6.1 m/s. No rain during monitoring.										
Notes	Measured noise so locations and times		ed traffic, bird	ds, insects,	frogs, and o	logs. The Max	well Underg	round Coal Mi	ne Project	was inaud	ible at all



APPENDIX 1 – MAPS OF MONITORING LOCATIONS





