

Maxwell Underground Coal Mine Project

Environmental Monitoring Data December 2021

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

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	December 2021
Date of Publication	10 January 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 December 2021

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	01/12/2021	31/12/2021	micrograms per cubic metre	5 minutes	Continuous	0	24	10	2856
9	ES-02	01/12/2021	31/12/2021	micrograms per cubic metre	5 minutes	Continuous	0	10	8	57
10	ES-03	01/12/2021	31/12/2021	micrograms per cubic metre	5 minutes	Continuous	0	541	11	4113
11	ES-04	01/12/2021	31/12/2021	micrograms per cubic metre	5 minutes	Continuous	0	16	15	123

Table 3. Blast monitoring results for December 2021

Table 5. Diast	able 3. Blast monitoring results for December 2021											
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 E	December 2021					
15	Monitoring location BM3											



Table 4. Noise monitoring results for 13 December 2021

EPA	Sampling point	Day (LA eq (15 minute))		Evening (L _{A eq (15} minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	ons
identification no.		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	61	41	52	41	55	52	79	No	Project inaudible
17	NM2	44	47	40	51	40	50	52	60	No	Project inaudible
18	NM3	40	53	35	63	35	65	52	93	No	Project inaudible
-	NM4	40	72	35	55	35	52	52	72	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 January 2022										
Weather Conditions	Wind speed 1.8–7.3 m/s. No rain during monitoring.										
Notes	Measured noise so inaudible at all loca			ds, insects,	a lawnmow	er, frogs, traffi	c. The Maxw	ell Undergrou	nd Coal Mi	ne Project	was



Table 5. Noise monitoring results for 14 December 2021

EDA	Sampling point	Day (LA eq (15 minute))		Evening (L _{A eq (} 15 minute))		Night (LA eq (15 minute))		Night (LA1 (1 minute))		eo	suo
EPA identification no.		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Exceedance (yes/no)	Observations
16	NM1	45	65	41	64	41	50	52	74	No	Project inaudible
17	NM2	44	40	40	43	40	48	52	54	No	Project inaudible
18	NM3	40	69	35	70	35	64	52	90	No	Project inaudible
-	NM4	40	54	35	53	35	50	52	71	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 January 2022										
Weather Conditions	Wind speed 1.8–7.3 m/s. No rain during monitoring.										
Notes	Measured noise so locations and times		ed traffic, bird	ds, a train, i	nsects, & fro	ogs. The Max	well Undergr	ound Coal Mir	ie Project v	vas inaudil	ole at all



Table 6. Noise monitoring results for 15 December 2021

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	68	41	66	41	69	52	96	No	Project inaudible
17	NM2	44	42	40	43	40	49	52	72	No	Project inaudible
18	NM3	40	69	35	64	35	60	52	79	No	Project inaudible
-	NM4	40	64	35	68	35	62	52	81	No	Project inaudible
Additional Informa	ation										
Date of Final Report	10 January 2022										
Weather Conditions	Wind speed 1.1–4.1 m/s. No rain during monitoring.										
Notes	Measured noise so and times.	ources include	ed traffic, bird	ds, insects &	& frogs. The	Maxwell Und	erground Co	al Mine Projec	ct was inau	dible at all	locations



APPENDIX 1 – MAPS OF MONITORING LOCATIONS





