



Maxwell Underground Coal Mine  
Project  
Environmental Monitoring Data  
August 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	<a href="http://app.epa.nsw.gov.au/prpoeoapp/">http://app.epa.nsw.gov.au/prpoeoapp/</a>
Reporting Month	August 2021
Date of Publication	29 October 2021
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 August 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	01/08/2021	31/08/2021	micrograms per cubic metre	5 minutes	Continuous	0	14	7	424
9	ES-02	01/08/2021	31/08/2021	micrograms per cubic metre	5 minutes	Continuous	0	9	8	104
10	ES-03	01/08/2021	31/08/2021	micrograms per cubic metre	5 minutes	Continuous	0	100	8	4236
11	ES-04	01/08/2021	31/08/2021	micrograms per cubic metre	5 minutes	Continuous	0	12	10	122

**Table 3. Blast monitoring results for August 2021**

EPA Monitoring Location	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	No blasting occurred during August 2021								
14	Monitoring location BM1									
15	Monitoring location BM1									

**Table 4. Noise monitoring results for 25 August 2021**

EPA identification no.	Sampling point	Day (L <sub>A</sub> eq (15 minute))		Evening (L <sub>A</sub> eq (15 minute))		Night (L <sub>A</sub> eq (15 minute))		Night (L <sub>A1</sub> (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	45	71	41	58	41	57	52	83	No	Project inaudible
17	NM2	44	48	40	39	40	41	52	59	No	Project inaudible
18	NM3	40	59	35	61	35	59	52	82	No	Project inaudible
Additional Information											
Date of Final Report	28 October 2021										
Weather Conditions	Wind speed 2.0–4.2 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, birds, frogs, a nearby mine, insects, a nearby stream, residential, a lawn mower, cows. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

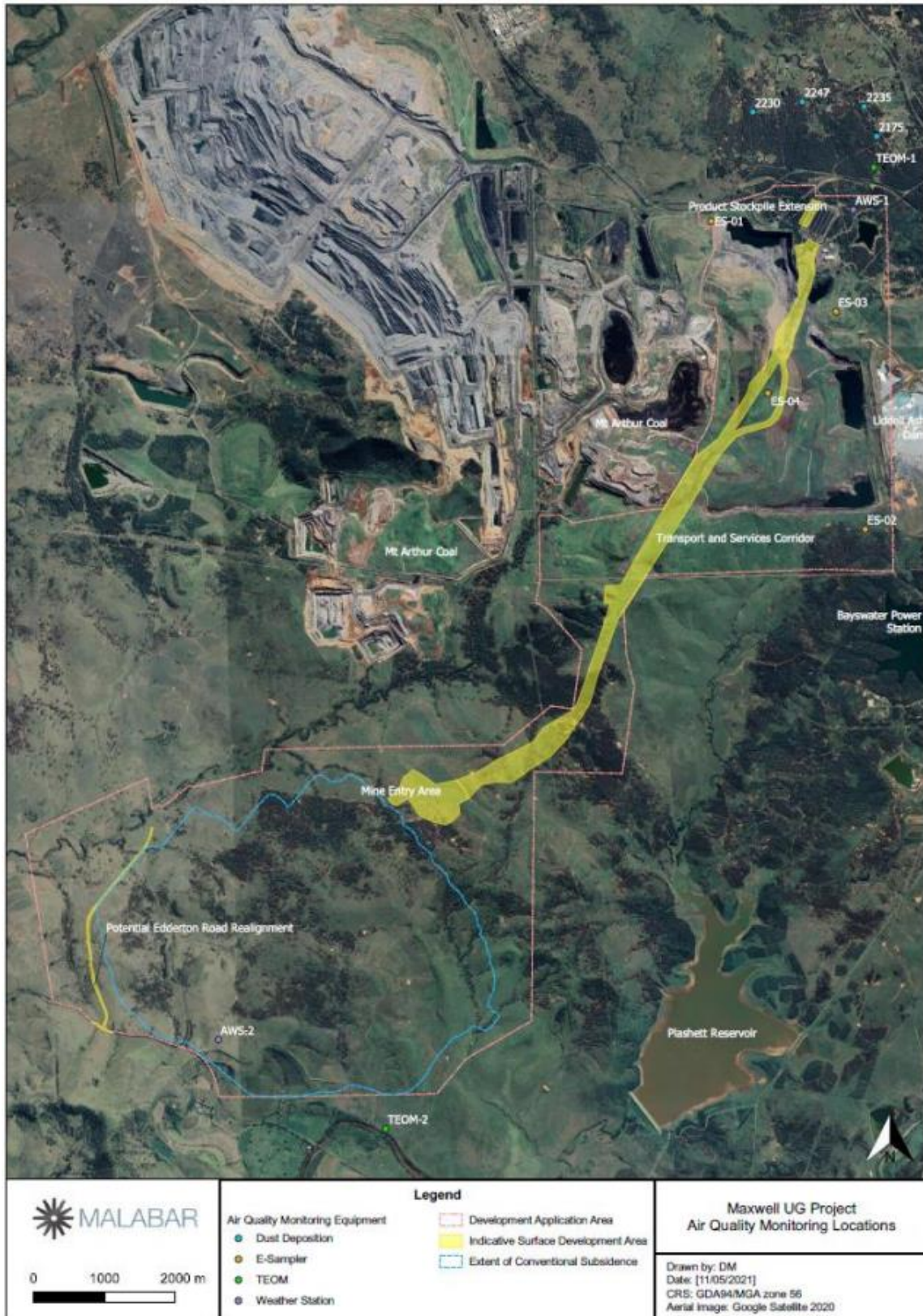
**Table 5. Noise monitoring results for 26 August 2021**

EPA identification no.	Sampling point	Day (L <sub>A</sub> eq (15 minute))		Evening (L <sub>A</sub> eq (15 minute))		Night (L <sub>A</sub> eq (15 minute))		Night (L <sub>A1</sub> (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	45	67	41	54	41	54	52	74	No	Project inaudible
17	NM2	44	43	40	43	40	38	52	44	No	Project inaudible
18	NM3	40	61	35	58	35	50	52	70	No	Project inaudible
Additional Information											
Date of Final Report	28 October 2021										
Weather Conditions	Wind speed 1.7–3.2 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, birds, frogs, a nearby mine, insects, residential, a lawn mower, cows. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

**Table 6. Noise monitoring results for 27 August 2021**

EPA identification no.	Sampling point	Day (L <sub>A</sub> eq (15 minute))		Evening (L <sub>A</sub> eq (15 minute))		Night (L <sub>A</sub> eq (15 minute))		Night (L <sub>A1</sub> (1 minute))		Exceedance (yes/no)	Observations
		Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
16	NM1	45	71	41	55	41	42	52	52	No	Project inaudible
17	NM2	44	44	40	40	40	41	52	49	No	Project inaudible
18	NM3	40	58	35	56	35	33	52	54	No	Project inaudible
Additional Information											
Date of Final Report	28 October 2021										
Weather Conditions	Wind speed 2.0–3.1 m/s. No rain during monitoring.										
Notes	Measured noise sources included traffic, aeroplanes, birds, frogs, a nearby mine, insects, cows. The Maxwell Underground Coal Mine Project was inaudible at all locations and times.										

# APPENDIX 1 – MAPS OF MONITORING LOCATIONS







 	<p style="text-align: center;"><b>Legend</b></p> <ul style="list-style-type: none"> <li> EPL1323 Premises Boundary</li> <li> Extent of Underground Development</li> <li> Blast Monitoring Locations</li> </ul>	<p style="text-align: center;"><b>Maxwell UG Project Blast Monitoring Locations</b></p> <hr/> <p> <small>           Drawn by: DM            Date: [21/05/2021]            CRS: GDA94/MGA zone 56            Aerial image: Google Satellite 2020         </small> </p>
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