



Maxwell Infrastructure
Environmental Monitoring Data
March 2021

1 INTRODUCTION

Maxwell Infrastructure is owned by Maxwell Ventures (Management) Pty Limited. This report has been compiled to present environmental monitoring data for Maxwell Infrastructure 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 PMB 9 Muswellbrook NSW 2333
Premises	Maxwell Infrastructure Thomas Mitchell Drive Muswellbrook NSW 2333
Link to the EPA Register	http://app.epa.nsw.gov.au/prpoeoapp/
Reporting Month	March 2021
Date of Publication	9 March 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 March 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	01/03/2021	31/03/2021	micrograms per cubic metre	5 minutes	Continuous	0	15	12	259
9	ES-02	01/03/2021	31/03/2021	micrograms per cubic metre	5 minutes	Continuous	0	6	4	41
10	ES-03	01/03/2021	31/03/2021	micrograms per cubic metre	5 minutes	Continuous	0	575	207	24,077
11	ES-04	01/03/2021	31/03/2021	micrograms per cubic metre	5 minutes	Continuous	0	11	10	32

ES-03 exhibited extreme high concentrations (>24,000µg/m³) from 27 February to 1 March inclusive; the issue was partially resolved following a visit from the monitoring contractor; ongoing spurious data occurred throughout March which was diagnosed as being likely due to a weak battery which was exacerbated due to the cloudy conditions experienced during March. The battery was replaced.

ES-04 power supply failed from 25 February, likely due to hail damage to the solar panel which was replaced.

Table 3. Blast monitoring results for March 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
5	Sharman	No blasting occurred during March 2021								
6	De Boer									
7	Antiene									

Table 4. Noise monitoring results for March 2021

Sampling point	Day (L _A eq (15 minute))		Evening (L _A eq (15 minute))		Night (L _A eq (15 minute))		Night (L _{A1} (1 minute))		Exceedance (yes/no)	Observations
	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level	Criteria	Noise Level		
12	35	<20	35	<20	39	<20	47	<20	No	
13	35	<20	35	<20	36	<20	45	<20	No	
14	35	<20	35	<20	37	<20	47	<20	No	
16*	35	<20	35	<20	38	<20	47	<20	No	
17	35	<20	35	<20	38	<20	47	<20	No	
18	35	<20	35	<20	40	<20	47	<20	No	
19	35	<20	35	<20	41	<20	47	<20	No	
20	35	<20	35	<20	41	<20	45	<20	No	
21	35	<20	36	<20	41	<20	45	<20	No	
22	35	<20	36	<20	42	<20	45	<20	No	
23	35	<20	37	<20	40	<20	47	<20	No	
25	35	<20	37	<20	41	<20	47	<20	No	
26	36	<20	36	<20	35	<20	47	<20	No	
27	36	<20	36	<20	36	<20	47	<20	No	
28	36	<20	37	<20	37	<20	47	<20	No	
29	36	<20	37	<20	38	<20	47	<20	No	
31	36	<20	37	<20	39	<20	47	<20	No	
32	36	<20	37	<20	42	<20	47	<20	No	
33	37	<20	38	<20	36	<20	45	<20	No	
34	38	<20	38	<20	38	<20	45	<20	No	
35	38	<20	38	<20	38	<20	45	<20	No	
37	38	<20	39	<20	38	<20	45	<20	No	

42	39	<20	40	<20	39	<20	45	<20	No	
61*	39	<20	40	<20	39	<20	45	<20	No	
69	40	<20	39	<20	39	<20	47	<20	No	
70	40	<20	40	<20	39	<20	47	<20	No	
71	41	<20	41	<20	39	<20	47	<20	No	
72*	35	<20	35	<20	35	<20	47	<20	No	
75*	35	<20	35	<20	35	<20	47	<20	No	
76*	35	<20	35	<20	35	<20	47	<20	No	
86	35	<20	35	<20	35	<20	45	<20	No	
All Other Privately- Owned Land	35	<20	35	<20	35	<20	45	<20	No	
Additional Information										
Date of Final Report	7 April 2021									
Date Sampled	30 March 2021 by Matthew Pennington of Spectrum Acoustics									
Weather Conditions	Wind speed 2.6–3.6 m/s. No rain.									
Notes	*Residences where attended noise monitoring is undertaken. The noise levels at all other locations are determined by noise modelling.									

APPENDIX 1 – MAPS OF MONITORING LOCATIONS





