



Clean TeQ Sunrise

2019 ENVIRONMENTAL MONITORING RESULTS

**AMBIENT NOISE - ATTENDED MONITORING
Q3 - September 2019**

Results received: 7/11/2019

Date published: 11/12/2019

Premises:
Clean TeQ Sunrise Project
Wilmatha Road
Fifield, NSW, 2875

[Environment Protection Licence #21146](#)



Ambient Noise – Attended Monitoring – September 2019 (Q3)

Table 1 Day Mine Operating Intrusive Noise Levels *L_{Aeq}* (15 minute)

Location	Date	Time	Measured Noise dB(A) ¹	Construction Criterion dB(A) ²	Wind speed (m/s) ³ /dir ^o	Noise criteria Applies ⁴ ?	Exceedance	Comments
AN1	11/9/19	2:42 pm	34	40	2.7 / 243	Yes	No	Birds (34), CLQ Sunrise inaudible
AN2	11/9/19	3:45 pm	37	40	2.8 / 264	Yes	No	Birds (37), CLQ Sunrise inaudible
AN3	11/9/19	4:14 pm	35	40	3.5 / 250	No	No	Sheep (34), insects (30), plane (22), CLQ Sunrise inaudible
AN4	11/9/19	3:15 pm	32	40	3.6 / 248	No	No	Birds (32), CLQ Sunrise inaudible

Table 2 Evening Mine Operating Intrusive Noise Levels *L_{Aeq}* (15 minute)

Location	Date	Time	Measured Noise dB(A) ¹	Construction Criterion dB(A) ²	Inversion °C/100m, Wind speed (m/s) ³ /dir ^o	Noise criterion Applies ⁴ ?	Exceedance	Comments
AN1	11/9/19	7:47 pm	23	35	2.0 / 183	Yes	No	Birds (23), CLQ Sunrise inaudible
AN2	11/9/19	8:48 pm	20	35	0.9 / 198	Yes	No	Traffic (20), CLQ Sunrise inaudible
AN3	11/9/19	9:15 pm	30	35	0.5 / 241	Yes	No	Sheep (29), traffic (24), CLQ Sunrise inaudible
AN4	11/9/19	8:17 pm	22	35	1.4 / 176	Yes	No	CLQ Sunrise inaudible

¹ Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy (EPA,1999), as per Schedule 3, Section 6 of DA 347-11-00.

² The construction noise criteria are defined in section L4 of the Environment Protection Licence for the project (EPL 21146).

³ Wind speed recorded at 10 metres above ground level; all meteorological data used as recorded by the meteorological station at EPA Licence Point 19.

⁴ Appendix 4 of DA 347-11-00 sets out the meteorological conditions under which the criteria apply, and the requirements for evaluating compliance with these criteria. The noise criteria in conditions 3-5 of Schedule 3 apply under all meteorological conditions except the following: wind speeds greater than 3 m/s at 10 metres above ground level; or stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or Pascall stability classes G temperature inversion conditions (as per Section L4.3 of EPL 21146).



Table 3 Night Mine Operating Intrusive Noise Levels *L_{Aeq}* (15 minute)

Location	Date	Time	Measured Noise dB(A) ¹	Construction Criterion dB(A) ²	Wind speed (m/s) ³ /dir ^o	Noise criteria Applies ⁴ ?	Exceedance	Comments
AN1	11/9/19	10:02 pm	33	35	0.3 / 203	Yes	No	Traffic (31), plane (28), birds (22), CLQ Sunrise inaudible
AN2	11/9/19	11:02 pm	30	35	0.5 / 174	Yes	No	Traffic (30), CLQ Sunrise inaudible
AN3	11/9/19	11:30 pm	25	35	0.4 / 213	Yes	No	Sheep (25), CLQ Sunrise inaudible
AN4	11/9/19	10:32 pm	20	35	Calm	Yes	No	CLQ Sunrise inaudible

Table 4 Night Mine Operating Intrusive Noise Levels *L_{A1}* (1 minute)

Location	Date	Time	Measured Noise dB(A), L1 (1 min) ⁵	Sleep Disturbance Criterion dB(A), L1 (1 min)	Inversion °C/100m, Wind speed (m/s) ⁷ /dir ^o	Noise criterion Applies ⁸ ?	L1 (1 min) source	Identified Mine Sources L1 (1 min)	Exceedance
AN1	11/9/19	10:02 pm	38	45	0.3 / 203	Yes	Traffic	n/a	No
AN2	11/9/19	11:02 pm	35	45	0.5 / 174	Yes	Traffic	n/a	No
AN3	11/9/19	11:30 pm	30	45	0.4 / 213	Yes	Sheep	n/a	No
AN4	11/9/19	10:32 pm	22	45	Calm	Yes	Sheep	n/a	No

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³ Wind speed recorded at 10 metres above ground level; all meteorological data used as recorded by the meteorological station at EPA Licence Point 19.

⁴ Appendix 4 of DA 347-11-00 sets out the meteorological conditions under which the criteria apply, and the requirements for evaluating compliance with these criteria. The noise criteria in conditions 3-5 of Schedule 3 apply under all meteorological conditions except the following: wind speeds greater than 3 m/s at 10 metres above ground level; or stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or Pascall stability classes G temperature inversion conditions (as per Section L4.3 of EPL 21146).