



Clean TeQ Sunrise

2020 ENVIRONMENTAL MONITORING RESULTS

**AMBIENT NOISE - ATTENDED MONITORING
Q1 - March 2020**

Results received: 16/04/2020

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

[Environment Protection Licence #21146](#)



Ambient Noise – Attended Monitoring – March 2020 (Q1)

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	17/03/20	3:50 pm	27	40	2.6 / 216	Yes	No	Birds & insects (27), CLQ Sunrise inaudible
AN2	17/03/20	4:38 pm	28	40	2.4 / 187	Yes	No	Birds & insects (28), CLQ Sunrise inaudible
AN3	17/03/20	5:05 pm	26	40	1.0 / 110	Yes	No	Birds & insects (26), CLQ Sunrise inaudible
AN4	17/03/20	4:12 pm	38	40	4.1 / 279	Yes	No	Birds & insects (38), 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	17/03/20	8:05 pm	23	35	2.4 / 169	No	No	Insects (23), CLQ Sunrise inaudible
AN2	17/03/20	9:41 pm	19	35	2.5 / 163	No	No	Insects (19), CLQ Sunrise inaudible
AN3	17/03/20	8:20 pm	28	35	2.3 / 175	No	No	Insects (26), traffic (22), CLQ Sunrise inaudible
AN4	17/03/20	9:16 pm	18	35	2.6 / 172	No	No	Insects (18), 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	17/03/20	10:35 pm	22	35	2.3 / 184	No	No	Insects (22), Sunrise inaudible
AN2	17/03/20	11:41 pm	18	35	2.8 / 66	No	No	Insects (18), Sunrise inaudible
AN3	17/03/20	10:05 pm	22	35	1.9 / 159	No	No	Insects (22), Sunrise inaudible
AN4	17/03/20	11:12 pm	17	35	1.6 / 138	Yes	No	Insects (17), 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	17/03/20	10:35 pm	25	45	2.3 / 184	No	Insects	n/a	No
AN2	17/03/20	11:41 pm	22	45	2.8 / 66	No	Insects	n/a	No
AN3	17/03/20	10:05 pm	26	45	1.9 / 159	No	Insects	n/a	No
AN4	17/03/20	11:12 pm	20	45	1.6 / 138	Yes	Insects	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).