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Kirstin Richmond
District Events Coordinator
Thames-Coromandel District Council
Private Bag 1001
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Dear Kirstin

WHANGMATA NEW YEARS EVE CONCERT

As requested I measured the noise from the New Year's Eve Concert held at 418 Ocean Road Whangamata (Williamson Park).

Condition 12 of the consent conditions requires the following conditions to be met.

- (i) *Amplified music during an event shall not exceed a level of 95dB L_{Aeq} when measured at 35 metres from the stage;*
- (ii) *Noise from the sound checks shall not exceed 30 minutes on the day of the event and a maximum level of 85dB L_{Aeq} when measured at 35 metres from the stage;*
- (iii) *No event shall commence before 5pm and shall not exceed 12 consecutive hours;*
- (iv) *The noise shall be measured in accordance with the requirements of NZS6801:2008 Acoustics - Measurement of Environmental Sound.*

The concert was scheduled to play between 6:30pm and 12 midnight. The weather throughout the monitoring period was fine and mild with an overcast sky. The wind was a 1m/s south westerly at the start of the concert reducing to calm to 0.5m/s by the end of the concert. There was a very light rain at the end of the concert although this did not affect the measurements.

The equipment used for the measurements was a Brüel & Kjær 2250 Hand-held Analyser platform with Sound Level Meter Software BZ 7222, Frequency Analysis Software BZ 7223, Logging Software BZ 7224 and Sound Recording Software BZ 7226. The equipment has been calibrated by a certified laboratory and the re-calibration is next due in December 2019. The equipment was field calibrated before and after measurements using a Brüel & Kjær 4230 calibrator. All measurements were undertaken in accordance with the requirements of NZS 6801:1991 Measurement of Sound.

Measurements were undertaken of the concert at 15 minute intervals and 35m from the stage as shown in Table 1.

Start time	End time	Level dB L _{Aeq}
18:30	18:45	81
18:45	19:00	82
19:00	19:15	85
19:15	19:30	90
19:30	19:45	88
19:45	20:00	89
20:00	20:15	86
20:15	20:30	95
20:30	20:45	93
20:45	21:00	94
21:00	21:15	92
21:15	21:30	87
21:30	21:45	89
21:45	22:00	91
22:00	22:15	91
22:15	22:30	95
22:30	22:45	92
22:45	23:00	95
23:00	23:15	89
23:15	23:30	92
23:30	23:45	90
23:45	0:00	89
0:00	0:05	90

Table 1. Measured Noise

As shown in Table 1 the noise did reach 95dB L_{Aeq} on three occasions but did not exceed this level. Thus, condition 12 of the resource consent was complied with.

Should you have any questions regarding the above please do not hesitate to contact me.

Yours faithfully
Hegley Acoustic Consultants



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