

Monday, 31 July 2023
Reference: P191259LT2-R1.docm

Statutory Planning Officer
Shire of Serpentine Jarrahdale
6 Paterson Street,
Mundijong WA 6123

Attention: Mr David Quelch

Dear Mr Quelch,

394 Robertson Rd, Cardup (PA23/198), Vibration Monitoring – Peer Review

We have undertaken an acoustic review and appraisal of the following report

Vibration Monitoring Report - Lot 60 Norman Road, Cardup by Lloyd George Acoustics, dated 30/06/23, Ref: 22107633-02 [LGA2]

From our review we have the concerns:

- The report is a monitoring report. It does not forecast vibration nor confirm that those vibrations are acceptable
- Vibration from Stressing Bed 1 and SB 2 have been measured. There is no comment whether the vibration from SB 3 & SB 4 are expected to be similar, higher, or lower. Consequently, there is no justification of any such conclusion
- There is no assessment of vibration from other sources closer to the residences, e.g., mobile equipment, or the loading/stacking/unstacking/removing of product near this boundary
- It is not clear whether the measurements presented in the report are clear vibration signals, background vibration or equipment error. There is an apparent discrepancy in the data in that SB 2, having the higher apparent PCPV vibration, has the lower rms vibration, compared to SB 1, refer below. There is no explanation of why this would be the case

SB 1

- Figure 4-1 shows PCPV vibration of 0.03 – 0.05 mm/s.
- Figure 4-2 shows rms vibration of 0.02 mm/s rms

SB 2

- Figure 4-3 shows PCPV vibration of 0.03 – 0.08 mm/s
- Figure 4-4 shows rms vibration of 0.01 mm/s rms

- We understand that LGA took vibration measurements close to stressing beds, and that this data has not been presented. The inclusion of any such valid data, along with the measurement locations, and forecasts at the neighbours may be able to resolve some of the confusion outlined above.

It is for these reasons that we are unable to support the proposed activities and do not recommend their approval at this time.

Yours sincerely,



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Director

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