

**BEFORE THE OTAGO REGIONAL COUNCIL AND
CENTRAL OTAGO DISTRICT COUNCIL**

IN THE MATTER OF

the Resource Management Act 1991

AND

IN THE MATTER OF

applications by Cromwell Certified
Concrete Limited for resource
consents to expand Amisfield Quarry

**SUMMARY OF EVIDENCE OF JAMIE EXETER
ON BEHALF OF CROMWELL CERTIFIED CONCRETE LIMITED**

(NOISE)

Dated: 14 December 2021

GREENWOOD ROCHE
LAWYERS
CHRISTCHURCH
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SUMMARY OF EVIDENCE

- 1 This document sets out a summary of my evidence dated 30 November 2021.
- 2 I have assessed the potential operational noise and vibration levels from the proposed quarry expansion, and potential construction noise during activities such as bund formation and site rehabilitation.
- 3 In my opinion, construction noise will comply with the District Plan permitted construction noise limits. I recommend that any construction noise condition is in terms of the current New Zealand construction noise standard, NZS 6803:1999. Adoption of this standard is unlikely to give rise to any additional construction noise effects and is considered current best practice.
- 4 My operational noise assessment included measurements of the existing plant operating on site. The same plant that will be used under the proposed operation. The results were used to calibrate a computer noise model to assess the noise levels at the nearest notional boundaries. The modelling was based on the following, to assess a worst-case scenario:
 - i. Peak production, with all processing plant operating constantly between 7 am and 7 pm;
 - ii. An additional hired mobile crusher on site¹; and
 - iii. Excavation in the parts of the expansion area nearest to the neighbouring dwellings (and building platforms).
- 5 My assessment demonstrates that noise from the operational phase will comply with the District Plan permitted noise limits for the rural zone. I have recommended proposed noise limits in terms of the current New Zealand environmental noise standards, NZS 6801:2008 and NZS 6802:2008. The adoption of the current environmental noise standards is in accordance with current best practice. This will ensure

¹ I understand that the use of the additional crusher on site is infrequent, and this would not change under the proposed operation.

that noise effects are consistent with the noise effects enabled by the permitted noise standards in the District Plan.

- 6 The proposed operation of the expanded quarry involves additional hours of noise from 6 am to 7 am, and from 7 pm to 8 pm, Monday to Friday. I have recommended restrictions during the additional hours in the morning and evening to mitigate the noise effects and ensure compliance with the proposed limits. Earth bunds have been constructed around the existing site and will be constructed around the expansion area before excavation begins. These will provide a significant reduction in noise levels beyond the site boundaries.
- 7 The cumulative noise emissions from the site will comply with the guidance of NZS 6802:2008 for avoiding annoyance and sleep disturbance at residential sites. The exposure and frequency of noise during the early morning period will be limited to between 6 am and 7 am on Monday to Friday only, and no more than twice per week. I consider that the cumulative noise emissions from the expanded quarry will be reasonable.
- 8 I consider that operational vibration generated by activities in the expansion area will generally be imperceptible within the nearest dwellings. Vibration will not exceed standards for avoiding cosmetic building damage, or a reasonable level for people.

Jamie Exeter

14 December 2021