

Before the Independent Hearing Panel

In the Matter of the Resource Management Act 1991 (**RMA**)

And

In the Matter of an application to the Central Otago District Council and Otago Regional Council for resource consent to establish and operate a gold mining activity at 1346 – 1536 Teviot Road, Millers Flat

Reference RC230325 (Central Otago District Council)
RM23.819 (Otago Regional Council)

**Summary Statement of Colin Macdiarmid on behalf Hawkeswood Mining Limited
(Geotech and Temporary Batter Slope Stability)**

Dated 13 May 2024

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Introduction

1. My full name is Colin Macdiarmid. I am a Principal Geotechnical Engineer with over 25 years' experience, working at GeoSolve Limited, a specialist geotechnical consultancy based in Otago.
2. I prepared a primary statement of evidence dated 29 April 2024 which sets out my qualifications and experience. I confirm that I have continued to comply with the Code of Conduct for expert witnesses in preparing this summary statement.

Summary

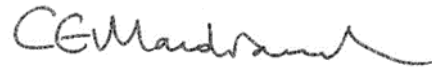
3. This summary statement considers the stability of proposed temporary batter slopes adjacent to Teviot Road.
4. The stratigraphy of the site is very simple and has been confirmed by site inspection and geotechnical drilling. It comprises a thickness of outwash gravel which contains the gold bearing horizons, overlying schist bedrock.
5. The test pit at the site provides a working example of batter cuts which can be achieved within the onsite outwash deposits.
6. I completed slope stability analysis to determine suitable temporary batters adjacent Teviot Road within the outwash deposits. My assessment concluded that overall batter angles of 45 degrees are suitable for the temporary batter slopes adjacent to Teviot Road for the proposed 7.5 m offset from the crest of the batters to the road reserve.

Conclusions

7. I remain of the view that the proposed temporary batter slopes are appropriate and can be managed through conditions of resource consent.
8. It will be possible to review these recommendations as the mine is developed and the performance of batter slopes can be reviewed.

Additionally, if the proposed offset were to change the recommendations could be updated.

9. Thus, from a geotechnical perspective, the proposed batter slopes are appropriate and supportable.



Colin Macdiarmid

Dated 13May 2024