

## **SUPPLEMENTARY STATEMENT**

CENTRAL OTAGO DISTRICT COUNCIL

RC230325 TO ESTABLISH AND OPERATE AN ALLUVIAL GOLD MINING OPERATION AT

1346-1536 TEVIOT ROAD, MILLERS FLAT

**Jess McKenzie (Landscape Architect)**

**vivian+espie**

**9 July 2024**

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### **Qualifications and experience**

- 1 My full name is Jessica McKenzie. I hold the qualifications of Master of Landscape Architecture and Bachelor of Landscape Architecture (with honours) from Lincoln University. I began working in the field of landscape architecture and planning 10 years ago. I am a member of the New Zealand Institute of Landscape Architects and was on the committee of the Southern Branch of the New Zealand Institute of Landscape Architects between 2020 and 2023. Since January 2020 I have been employed as a landscape architect by Vivian and Espie Limited, a specialist resource management and landscape planning consultancy based in Queenstown.
- 2 The majority of my work involves advising clients on the management of landscapes and amenity with regard to the RMA and landscape provisions of various district and regional plans. I also produce assessment reports and evidence in relation to proposed developments. The primary objective of these assessments and evidence is to ascertain the effects of the proposed development in relation to landscape character and amenity.

### **Comment on Hearing, Supplementary Evidence of Mike Moore and Proposed Conditions**

- 3 I have reviewed the supplementary evidence of Mike Moore dated 25 June 2024, which addresses additional written approvals received, the appropriateness of the proposed Tima Burn enhancement planting, the appropriateness of the proposed Rehabilitation and Enhancement Management Plan (**REMP**); and the appropriateness of the proposed condition set in respect of managing landscape effects.

- 4 With regard to additional written approvals, I agree that effects on 1331 Teviot Road can be disregarded as written approval has now been given.
- 5 With regard to the appropriateness of the proposed Tima Burn enhancement planting, I agree that the proposal will have a positive effect on natural character and visual amenity relating to the stretch of the Tima Burn visible from Teviot Road.
- 6 With regard to the Rehabilitation and Enhancement Management Plan, I agree that the proposed conditions appropriately address remediation of the site such that adverse landscape effects will be remedied once the mining activity is complete.
- 7 With regard to the Proposed Conditions of Consent dated 24 June 2024, I consider that these appropriately mitigate adverse effects on the landscape. The landscape-related conditions I have reviewed are listed below.

- *Requirements for a Rehabilitation and Management Plan that must include:*
  - *Procedures for decommissioning of the mine infrastructure and removal of all structures, machinery and plant from the site.*
  - *Methods to preserve the topsoil resource and health.*
  - *The final planned surface contour of land following completion of mining, including any on-site drainage patterns. The final site contour is to integrate with the surrounding landform and restore the site to its pre-existing landform, except that the Council green waste tip on Section 92 Block VIII Bengel SD is to be filled in and the tailings dump on Section 90 Block VIII Bengel SD is to be removed.*
  - *Methods and timeframes for re-grassing and restoring agricultural productivity of the mined land.*
  - *Specification of an ecological enhancement project comprising at least 3,000m<sup>2</sup> of native planting in a non-agricultural location near to the site, either adjoining the Tima Burn or adjoining the Clutha / Mata-au or on the Consent Holder's land adjacent to the Clutha / Mata-au margin.*
  - *A description of the timeline for the ecological enhancement project, whereby the first half shall be undertaken at the first available planting season after Stage 1 and the second half shall be undertaken at the first available planting season after Stage 2 of the mining operations.*
- *A copy of the draft REMP must be provided to Kāti Huirapa Rūnaka ki Puketeraki, Te Rūnanga o Ōtākou and Hokonui Rūnanga (Kā Rūnaka) via Aukaha. Kā Rūnaka must be afforded at least 20 working days to provide feedback on the draft REMP. If no feedback is received from Kā Rūnaka in that timeframe the consent holder is not obliged to wait for feedback. When submitting the REMP for certification in accordance with condition 12,*

the consent holder must also provide to Council ([Monitoring@codc.govt.nz](mailto:Monitoring@codc.govt.nz)) a copy of any feedback from Kā Rūnaka, a description of amendments made in response to that feedback and any reasons for changes requested by Kā Rūnaka and not made by the Consent Holder.

- All mine closure, rehabilitation of the entire site and ecological enhancement projects described in the REMP must be completed prior to this resource consent expiring.

#### **Bunds**

- Bunding shall be established in accordance with the Master Plan Set dated 22 April 2024. The consent holder shall ensure that prior to the commencement of mining in each stage or sub-stage, bunding is established in the locations shown on the specific sheet numbers referenced in the table below. Bunds may be disestablished in accordance with the staging noted on the site plans (Master Plan Set dated 21/6/2024).

<i>Mining Stage</i>	<i>Sheet number showing locations of bunds required for the stage</i>
1	2
2	3
3	4
3B	5
4	6
4, after reinstatement of the cycle trail to the existing alignment	8

- The height of these bunds must be no less than 3 metres except for the bund in stage 2, which must be 4 metres high along the northern boundary of the site, and at least 300m down the north-western side of stage 2 and 700m down the north-eastern side of stage 2.

**Advice note:** Minimum 4m high bunds as specified above are required for the mitigation of noise effects, as described in Hegley Acoustics Report 22048 Proposed Alluvial Mining Millers Flat Assessment of Noise Effects, dated 20 March 2023.

- Bunding shall be grassed and irrigation must be implemented as necessary to ensure successful establishment of grass.

#### **Landscape**

- Gravel stockpiles must be no higher than 7 metres above natural ground level.
- Areas where mining is complete must be reinstated as soon as practicable to blend naturally with surrounding contours and must be established in pasture and irrigated as necessary to ensure successful establishment of grass.
- The mine pit shall be set back a minimum of 20 metres from the typical wetted channel of the Tima Burn and the Clutha River / Mata-au.

- *The consent holder shall establish survey pegs to demarcate the 20 metre setback to ensure compliance with this condition.*
- *Survey pegs must be established prior to earthworks occurring within 100 metres of a watercourse.*
- *Survey pegs are not required and/or may be removed:*
  - *when a bund is located between the earthworks and the watercourse, or*
  - *when earthworks are further than 100m from the watercourse.*
- *All containers and buildings on the site are to be finished in the same colour, which shall be Resene Iron Sand (LRV – 9%). The container shelter fabric shall be a dark green colour to be visually recessive in the landscape.*

8 Overall, I consider that the conditions ensure landscape effects are adequately managed through site management, rehabilitation, ecological enhancement, mitigation measures, staging, and appropriate placement of visible elements for the duration of the mining activity. The latest plan set presented at the hearing illustrated an appropriate bund extension for the Stage Two area. I consider that the updated plan set, and conditions provide assurance that the adverse effects on views and visual amenity will be adequately mitigated.

**vivian+espie**

**Quality Assurance**

Report prepared by Vivian and Espie for Central Otago District Council			
<b>Reviewed and Approved By</b>	Jess McKenzie	Landscape Architect	9 July 2024