

OCEANAGOLD (NEW ZEALAND)
LIMITED

MACRAES PHASE FOUR (MP4)

Hazardous Substances

Evidence of Rose Turnwald Regarding
Technical Assessment of **Hazardous
Substances** Effects and Proposed
Conditions

INTRODUCTION

1. My full name is Rose Ella Turnwald.
2. My role in relation to Macraes Phase 4 (“**MP4**”) has been to provide expert advice in relation to hazardous substances. I wrote the Hazardous Substances Assessment (“**the Report**”), which is provided within *Part B – Technical Reports* of the application.
3. This evidence has been prepared to accompany the Report and the application by Oceana Gold (New Zealand) Limited (“**OGNZL**”) for approvals required for MP4 under the Fast-track Approvals Act 2024 (“**FTAA**”).
4. Section 4.1(h) of the FTAA Panel Conveners’ Practice and Procedure note (July 2025) says all technical experts authoring reports should include a statement regarding compliance with the Code of Conduct for Expert Witnesses. This evidence has been prepared to fulfil this requirement, and if a hearing is not held, this evidence confirms that, relative to my area of expertise, the Report provides an appropriate description of the relevant environment, the proposed activities comprising the effects of the MP4 on that environment, and the way those effects are proposed to be managed.
5. My findings are set out in full in the **Macraes Phase 4 Project – Fast-track approvals – Hazardous substances assessment** included in *Part B – Technical Reports* of the application.
6. While this application is not being considered by the Environment Court, I confirm that I have read the Code of Conduct for Expert Witnesses contained in the Environment Court of New Zealand Practice Note 2023 and that I have complied with it when preparing the Report. Other than when I state I am relying on the advice of another person, the Report is within my area of expertise. I have not omitted to consider material facts known to me that might alter or detract from the opinions that I express.

QUALIFICATIONS AND EXPERIENCE

7. I hold the qualifications of Bachelor of Engineering (Honours) specialising in Chemical and Materials from the University of Auckland.
8. I am a Specialist Environmental Engineer at Tonkin & Taylor Ltd (“**T+T**”). I have over nine years’ experience in environmental and hazardous substances management and have worked as an environmental engineer at T+T since 2018.
9. Example projects that I have been involved in include the following:

- a. Oceana Gold (New Zealand) Limited - Waihi North Project (2024–2025): I prepared the hazardous substances assessments for the proposed upgrades to the Processing Plant and Water Treatment Plant in Waihi, for the establishment and operation of the surface facilities on a new site north of Waihi and for exploration, construction and operation of the new underground mine in the Coromandel Forest Park. I have since assisted in updating the Hazardous Substances Management Plan to detail the controls in place at the consented locations.
 - b. Bathurst Resources Ltd, Buller Coal Continuation Project (2024–current): I have prepared the hazardous substances assessment for the fast-track consent application for re consenting and expansion of open-cast coal mining on the Buller Plateau and the coal transfer facility in Ngakawau, including establishment of new explosives storage areas, bulk fuel storage, workshops and water treatment facilities.
 - c. Blue Sky Meats Ltd, Private Plan Change (2025): I provided expert evidence to the independent hearing commissioner regarding the hazardous substances rules proposed as part of Plan Change 3 of the Southland District Plan. These rules set threshold quantities for different hazardous substances above which consent would be required, and established permitted activity standards for management of hazardous substances in the Blue Sky Precinct.
 - d. Hazardous substance assessments throughout New Zealand for land use consent under various district plans including facilities in Auckland, Waikato, Bay of Plenty, Wellington, West Coast, Canterbury and Southland.
10. In providing this evidence, I have considered the following matters as relevant to that topic:
- a. The project description provided by OGNZL as set out in Section 6 of the Substantive Application prepared by Mitchell Daysh Limited;
 - b. The description of the existing environment as set out in Section 4 of the Substantive Application, the effects of MP4 on that environment and their significance, and the proposals to manage those effects as all set out in the assessment of effects in Section 9 of the Substantive Application;
 - c. Descriptions of ecological receiving environments provided in Macraes MP4 Project Assessment of Aquatic Environmental Effects (Viridis, 2026);
 - d. Surface water management details from the Macraes Phase Four Project (MP4) Active Water Treatment Study (Process Flow Limited, 2026) and the Macraes Phase 4 FTA Surface and Groundwater Assessment (GHD, 2026); and

- e. The management procedures and plans prepared by Oceana Gold, in particular relating to hazardous substances management and emergency response:
 - i Principal Hazard Management Plan – Hazardous Substances MAC-257-PHM-007-10 (June 2025);
 - ii Principal Hazard Management Plan – Explosives MAC-257-PHM-006-15 (July 2025); and
 - iii Principal Control Plan – Emergency Management MAC-253-PCP-000 (June 2026).

CONFIRMATION OF CONTENTS OF REPORT AND PROPOSED CONDITIONS

- 11. I confirm that in my opinion the Report contains an accurate and appropriate description of the environment, the actual and potential effects of MP4, and the recommended actions to manage those effects within my area of expertise.
- 12. I confirm that in my opinion the contents of the Report may be relied on in making a decision on the approvals sought for MP4, and confirm that provided effects within my area of expertise are managed as proposed in the application, those effects will not be unacceptable and will be managed to a standard that I consider meets good practice.
- 13. I confirm that I have reviewed the conditions that OGNZL proposes for the various approvals being sought as they relate to my area of expertise. I confirm that in my opinion those proposed conditions are appropriate.



Rose Turnwald

Dated this 7th September 2026