

OCEANAGOLD (NEW ZEALAND)
LIMITED

WAIHI NORTH PROJECT

Artificial Lighting

Evidence of Pedersen Read Regarding
Assessment of Environmental Effects -
Lighting

INTRODUCTION

My name is Andrew Read, Senior Consultant, Pedersen Read Limited.

My role in relation to the Waihi North Project (“**WNP**”) has been to provide expert advice in relation to artificial lighting. I wrote the “*Assessment of Environmental Effects: Lighting*” report which is provided within *Part H – Supporting Technical Assessments* of the application.

This evidence has been prepared to accompany the application by Oceana Gold (New Zealand) Limited (“**OGNZL**”) for approvals required for the WNP under the Fast-track Approvals Act 2024 (“**FTAA**”). It has been prepared on the understanding that the process for determining applications under the FTAA does not require a hearing to be held, and accordingly the purpose of this evidence is to confirm that, relative to my area of expertise the “*Assessment of Environmental Effects: Lighting*” provides an appropriate description of the relevant environment, the proposed activities comprising the effects of the WNP on that environment, and the way those effects are proposed to be managed.

My findings are set out in full in the “*Assessment of Environmental Effects: Lighting*” included within *Part H – Supporting Technical Assessments* of the application.

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 this evidence. Other than when I state I am relying on the advice of another person, this evidence 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

My name is Andrew Read. I am a Senior Consultant and past Director of Pedersen Read Limited. I hold a Bachelor of Engineering (Electrical and Electronic) with Honours from the University of Canterbury. I am a Chartered Professional Engineer, Fellow and Chartered Member of Engineering New Zealand, am on the register of International Professional Engineers, and am an Associate of Illuminating Engineering Society of Australia and New Zealand.

I am currently employed as Senior Consultant and have held that position since April 2024. Prior to April 2024 I was a director of Pedersen Read Limited for over 25 years.

I have been involved with lighting design and the assessment of environmental effects of lighting for over 25 years. I have been involved with submissions on the Christchurch City Plan when their Glare Rules were first introduced in the mid 1990's and have provided lighting advice for multiple outdoor sites since.

In providing this evidence in relation to lighting, I have considered the following matters as relevant to that topic:

- (a) OceanaGold's, "*Waihi North Project – Fast-track Approval, Project Description*".
- (b) Information provided by Mitchell Daysh and OceanaGold on the proposed construction, operation, and remediation of each of the WNP areas.
- (c) The technical assessments of Boffa Miskell "*Terrestrial Ecology Values and Effects of the WUG*", "*Natural Character and Visual Effects Assessment*" and "*Landscape Assessment*".
- (d) The relevant Hauraki District Plan Rules with respect to Glare and Lighting, Australian / New Zealand Standard AS/NZS 4282: 2023, "*Control of the obtrusive effects of outdoor lighting*", and the Australian Government, Department of Climate Change, Energy, the Environment and Water, "*National Light Pollution Guidelines for Wildlife*", May 2023.

CONFIRMATION OF CONTENTS OF REPORT

I confirm that in my opinion the "*Assessment of Environmental Effects: Lighting*" contains an accurate and appropriate description of the environment, the actual and potential effects of the WNP, and the recommended actions to manage those effects within my area of expertise.

I confirm that in my opinion the contents of the "*Assessment of Environmental Effects: Lighting*" may be relied on in making a decision on the approvals sought for the WNP, 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.



Andrew Read,

On behalf of **Pedersen Read Limited**

Dated this 25th day of February 2025