

**BEFORE INDEPENDENT HEARING COMMISSIONERS
APPOINTED BY THE WAIKATO DISTRICT COUNCIL**

IN THE MATTER of the Resource Management Act 1991
(**RMA**)

AND

IN THE MATTER of the Proposed Waikato District Plan

BETWEEN **RANGITAHİ LIMITED**

Submitter [No. 343]

AND **WAIKATO DISTRICT COUNCIL**

Local Authority

**SUMMARY STATEMENT OF EVIDENCE OF
RAYMOND BRIAN O'CALLAGHAN FOR RANGITAHİ LIMITED**

HEARING 25: RAGLAN

ENGINEERING INFRASTRUCTURE

21 MAY 2021

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INTRODUCTION

1. My name is Raymond Brian O'Callaghan. I provided evidence in chief (**EiC**), dated 17 February 2021, on engineering infrastructure matters related to Rangitahi Ltd's submission on the Proposed Waikato District Plan (**pWDP**).
2. I outlined my qualifications, experience and commitment to comply with the Environment Court Expert Witness Code of Conduct in my EiC.

SUMMARY OF EVIDENCE

3. I summarise my evidence as follows:

Wastewater

- (a) The urban area of Raglan is serviced by a wastewater treatment plant located on Wainui Road. The treated effluent is discharged to the Whāingaroa Harbour during an out-going tide. The existing wastewater reticulation, treatment and disposal infrastructure, is under review for a new resource consenting process, with upgrades to the plant currently planned to occur by 2027 (Draft Long Term Plan 2021-31).
- (b) Future increased wastewater flows resulting from additional growth in Raglan beyond the Rangitahi Peninsula and Lorenzen Bay growth zones, including the Future Urban Zone (**FUZ**) can, in my opinion, be accommodated by industry standard engineering solutions incorporating some existing capacity within the system and future upgrade/expansion of elements within the infrastructure.
- (c) Wastewater infrastructure is therefore not an impediment to future growth in Raglan but it will need to be expanded to match future growth demand and the technical specifics of the expansion elements will need to be investigated and planned with a long term view and be consistent with the discharge consent current at that time.

Water Supply

- (d) Water supply for Raglan is from the Omahina Spring in the upper reaches of the Omahina Creek. The water take limit from the spring equates to a serviced population of approximately 10,000 people. The spring water is

treated to NZ Drinking Water Standards. The reticulation includes 3 reservoirs and a piped distribution system.

- (e) The existing water take bore, treatment system and reticulation infrastructure can be upgraded, when its existing capacity is reached, with conventional engineering solutions to deal with future growth in Raglan. The most immediate element is likely to be a new reservoir.

Roading

- (f) The existing roading network within Raglan is appropriate but the upgrade of some existing roads and the construction of new roads associated with new areas of development within Raglan is proposed. These works can be managed, from an engineering perspective, with industry standard solutions, although I acknowledge that significant engineering and environmental investigations will be required to confirm the appropriate alignments of new roads and that the works are feasible and consentable.
- (g) There are constraint issues with the existing one-lane bridge on Wainui Road and this is addressed in more detail by Mr Ian Clark in his EIC.

Infrastructure Planning

- (h) Future development in Raglan can be serviced with existing and expanded/upgraded infrastructure. The investigation and selection of the engineering elements providing additional capacity to deal with the growth areas and the Future Urban Areas, should, in my opinion, be carried out as part of a Spatial Planning process.
- (i) I understand that Watercare has commissioned a Raglan three waters infrastructure master plan. I consider that infrastructure planning at a Raglan-wide level, as part of a wider growth planning exercise, would assist in optimising the efficient design and provision of infrastructure.

Raymond O'Callaghan

21 May 2021