

# Appendix 2

## Water Servicing

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**Memorandum**

**To: The District Planning Team**

**From: Melissa Parlane (Asset Management and Capital Delivery Manager)**

**Date: 26<sup>th</sup> January 2024**

**Subject: Private Plan Change 83 (The Rise) in respect to water supply infrastructure.**

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In response to Private Plan Change 83 The Rise (**PPC83**) I have been asked by the District Planning Team to provide advice on issues associated with the provision of potable water, and in particular:

- The capacity of the Mangawhai Water Supply network and Water Treatment Plant and its ability to supply potable water.
- The proposed provisions for the supply of potable water for PPC83.

The statements made are current at the date of preparing this memorandum and are intended to be used as part of the section 42A report for PPC83.

With respect to the capacity of the Mangawhai Water Supply network and Water Treatment Plant:

- Parts of Mangawhai are serviced by a small, reticulated network fed by a bore and reservoir, running from Fagan Place in Mangawhai Village to the end of Wintle Street.
- Kaipara District Council currently has no strategic plan to increase the water supply network or Treatment Plant capacity in Mangawhai.
- The majority of the Mangawhai area continues to be serviced by private rainwater harvesting.

With respect to the proposed supply of potable water for PPC83:

- The applicant proposes in its Land Development Report lodged in support of PPC83 (page 11) on-site rainwater harvesting combined with the use of water saving fixtures. I support this approach.
- The applicant has supplied calculated minimum tank sizes for a range of site sizes, based on a reasonable standard.
- The typical 600m<sup>2</sup> residential site with 180m<sup>2</sup> roof area and 50m<sup>3</sup> rainwater harvesting storage, is discussed in the Land Development Report lodged in support of PPC83 (page 11). I consider that this provides adequate provision for water supply, noting that the majority of Mangawhai and large parts of Northland receive potable water from rainwater harvesting.
- Concerns have been raised by submitters regarding the resilience of water supply for sites with tank supply less than 50m<sup>3</sup>.
- I also have concerns regarding the ability of sites that are less than 600m<sup>2</sup> and have roof area of less than 180m<sup>2</sup> to provide a sufficiently robust supply of rainwater, even when rainwater saving devices are used, and to accommodate a rainwater storage tank of 50m<sup>3</sup>.
- While I acknowledge the ability to “top up” rainwater tanks by water tanker, I consider it important to ensure that there is still a suitably robust supply of water available.
- I note that during drought conditions water supply can become generally constrained, making topping up by water tankers difficult, and expensive.
- I recommend that the plan provisions for PPC83 address these matters and ensure that adequate water supply is provided.

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26<sup>th</sup> January 2024

*Melissa Parlane*

*Date*