

BEFORE TAUPŌ DISTRICT COUNCIL

IN THE MATTER OF the Resource Management Act 1991 ('the Act')

AND

IN THE MATTER OF of an application for a Proposed Plan Change 37 Nukuhau

**SUMMARY STATEMENT FOR HEARING BY COLIN DAVID MEADOWCROFT
ON BEHALF OF TAUPŌ DISTRICT COUNCIL**

Date: 8 November 2021

QUALIFICATIONS AND EXPERIENCE

1 My qualifications and experience are set out in my Evidence-in-Chief.

CODE OF CONDUCT

2 I have read the Code of Conduct for Expert Witnesses outlined in the Environment Court's Consolidated Practice Note and have complied with it in preparing this evidence. I also agree to follow the Code when presenting evidence. I confirm that the issues addressed in this brief of evidence are within my area of expertise and that I have not omitted to consider material facts known to me that might alter or detract from my opinions.

BACKGROUND

3 I have prepared or contributed to the following documents:

- My Evidence-in-Chief.
- The Section 42A report prepared by Mr Matt Bonis.

4 In my 2021 evidence I provided comments on:

- The stormwater management report of WSP (2020).
- Comments on the following submissions:
 - Submitter 34 - Peter Marshall, Tukairangi Trust.
 - Submitter 43 - Waikato Regional Council.
 - Submitter 52 – Todd Land Development Consultancy.

5 This summary statement is based on the above documents (although it does not replace them), along with consideration of the following:

- Evidence-in-Chief of Mr Warren Bird.
- The Section 42A report prepared by Mr Matt Bonis.

COMMENTS ON MR BIRD'S EVIDENCE

6 At Paragraph 39, Mr Bird notes that excess flows above 10% AEP will “flow away” via overland flow-paths to gullies. Whilst this may be acceptable with WRC approvals, it is noted that it will be very important for gullies to then have to have approved management devices to slow and attenuate flows up

to a 1% AEP to avoid increasing peak flow-rates downstream that would otherwise increase flood risk and cause increased erosion issues.

- 7 At Paragraph 46, Mr Bird confirms this and that gullies may be used to manage flows in excess of a 10% (10-Year) rainfall event which I support as it is not considered practical to manage the large volumes of stormwater within the residential areas, and stormwater flows are after all what originally formed these gullies.

COMMENTS ON SUBMITTER 43 WAIKATO REGIONAL COUNCIL

- 8 Waikato Regional Council's requirement is to follow their comprehensive stormwater management guidance. I support a comprehensive approach to stormwater management following WRC Guidelines as outlined in the applicants documents.

COMMENTS ON SUBMITTER 52 TODD LAND DEVELOPMENT CONSULTANCY (TLDC)

- 9 TLDC submitted that an overall Catchment Plan that considers the whole catchment and waterflows throughout, particularly looking at potential land use changes and the impact on the primary downstream channel should be undertaken. I believe that a Catchment Management Plan (CMP) for the full Plan Change area is important to ensure no adverse effects are created through the proposed activities, especially if the development occurs in an ad-hoc or staged way.

OTHER COMMENTS

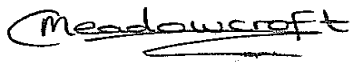
- 10 Taupō District Council currently manages stormwater services as part of the roading network or via gullies and overland flow paths in the urban areas of the Taupo District. ***The existing Nukuhau residential stormwater falls under a comprehensive discharge consent which covers all of urban Taupo (Resource Consent 105048).*** New greenfield areas specifically require a catchment wide CMP to allow the new stormwater infrastructure to be incorporated into the existing comprehensive stormwater consent. This should be provided for the full Nukuhau Pan Change area prior to any development.

CONCLUSION

- 11 The conclusion of my Evidence-in-Chief remains unchanged, but I must reiterate that Taupo District Council have specifically noted that they require a Catchment Management Plan (CMP) for greenfield developments to provide for the stormwater infrastructure to be inherited by them under their existing Comprehensive Stormwater Consent for the area. This would be best provided globally as part of the Plan Change rather than on an ad-hoc basis with Subdivision Consents, which would not get the best catchment wide solutions.

- 12 I support the stormwater aspects of the proposed Plan Change based on the comments above, and with the appropriate stormwater mitigation proposed to attenuate/slow the main gully flows to predevelopment levels for up to a 1% AEP (100-year) rainfall event.
- 13 I support the opportunity to reduce flow velocity by planting gullies and with the use of appropriate detention within the gully systems, which should reduce flood and erosion issues in the lower catchment. There are good and bad examples of stormwater management and shared use connectivity opportunities evident in the adjacent Brentwood subdivision, with bunds, planting and also an example where gully diversion has failed, and has become contentious with downstream landowners.
- 14 I believe that a catchment wide CMP is important prior to development occurring to ensure no adverse effects are created through the proposed activities, especially if the development occurs in an ad-hoc or staged way.

Signature

A handwritten signature in black ink that reads "Meadowcroft". The signature is written in a cursive style with a horizontal line underneath the name.

Colin David Meadowcroft
8 November 2021