

Before the Hearing Panel
Appointed by the Waimakariri District
Council

Under the Resource Management Act 1991

In the matter of a hearing on submissions on the proposed Waimakariri District
Plan

Hearing Stream 12E: Residential Rezoning

Rachel Claire Hobson and Bernard Whimp

Submission: 179 / Further submission: 90

Evidence of Jenny Bull

2 August 2024

Submitter's solicitors:

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**anderson
lloyd.**

Introduction

- 1 My name is Jenny Bull and I am a Senior Three Waters Engineer at Eliot Sinclair. I have been employed by Eliot Sinclair since November 2016.
- 2 I hold a Bachelor of Engineering (Hons), and have over 12 years of professional experience as an engineer. I am a Chartered Professional Engineer (CPEng), and have held this qualification since August 2019. My relevant professional experience includes civil engineering design of three waters for land development projects.

Code of Conduct for Expert Witnesses

- 3 While this is not a hearing before 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 my 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.

Scope

- 4 This evidence:
 - (a) Addresses my adoption of the evidence previously provided by Ms Stephany Pandrea; and
 - (b) Responds to the Officer's Report for Stream 12E: Residential Rezoning, dated 22 July 2024, in relation to flooding and water services.

Adoption of the evidence of Stephany Pandrea

- 5 Ms Pandrea has prepared evidence in chief dated 5 March 2024 addressing infrastructure and flooding matters in respect of the submission of Rachel Claire Hobson and Bernard Whimp (**the Submitters**). Ms Pandrea is no longer available to present this evidence at the Stream 12E hearing.
- 6 I have reviewed Ms Pandrea's evidence. I confirm that I agree with and adopt the content of her evidence.

Response to Officer's Report

Flood hazard

- 7 Mr Aramowicz, a Geotechnical Engineer advising Council, considers that increase of flood depths between 225 mm and 410 mm to be significant,¹ However, he goes on to note that the modelling confirms the increase in flood depths are largely contained in existing alluvial depressions and therefore the increase in flood depth will be unlikely to cause inundation to the existing building platforms.²
- 8 I consider this can be addressed at detailed engineering design and with further design of overland flow paths, the flood depths on surrounding properties can be further mitigated if required.
- 9 I note that, in respect of the Flood Impact Assessment prepared by Eliot Sinclair, Mr Aramowicz concludes “... *the effect of any additional stormwater runoff from a future subdivision to Taranaki Stream and/or the Cam River (and therefore the Silverstream/Kaiapoi area) can be largely mitigated using adequately sized diversion swales and onsite attenuation of stormwater runoff.*”³

Services

- 10 In respect of wastewater and potable water, I concur with Mr Aramowicz's comments (as reported at paragraph 513 of the Officer Report) and see no impediment to development should the site be rezoned for residential development.

Dated 2 August 2024

Jenny Bull

¹ Officer's Report: Part 1 at [512]; Memorandum from John Aramowicz to Peter Wilson, dated 15 July 2024 at [145].

² Memorandum from John Aramowicz to Peter Wilson, dated 15 July 2024 at [146].

³ Officer's Report: Part 1 at [512]