Before Hawkes Bay Regional Council and Hastings District Council

In the matter of	the Resource Management Act 1991
And	
In the matter of	Applications by Hastings District Council and Napier City Council (**Applicants**) for approvals relating to Area B at Ōmarunui Landfill (**Landfill**)

Summary of evidence by Robert Alan Van de Munckhof

Surface water quality and sediment

Dated 28 October 2021

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1. I prepared evidence dated 2 September 2021 on the topic of surface water quality and sediment. I also contributed to a response to questions from the Commissioners, dated 28 October 2021.

Proposed activities

2. The proposed Area B development includes a range of activities including earthworks; cell development, waste placement and operations and capping and closure.

3. In terms of potential sediment and contaminant generation, the initial construction works comprise the highest risk of sediment generation as this will comprise the largest area of earthworks and exposed soils.

4. In terms of other contaminants, the waste placement and operations pose the greatest risk, where, if not effectively managed, the potential for contaminants from the waste and leachate to get into surface water exists.

Erosion and sediment control

5. The discharge of sediment from the site will be managed via:

(a) The construction of a sediment pond and polishing wetland to provide treatment of any sediment laden runoff;

(b) An erosion and sediment control plan which outlines the procedures for erosion protection measures and sediment control to be implemented at the site; and

(c) On-going monitoring to confirm the effectiveness of the controls and treatment system and provide a feedback mechanism.

6. The sediment pond and wetland have been designed in accordance with the Hawke's Bay Waterway Guidelines – Erosion and Sediment Control 2009 and the Hawke's Bay Waterway Guidelines – Stormwater.

7. The proposed controls are consistent with HBRC guidance and in my opinion are appropriate for managing the potential sediment generation and discharge from the construction and operation of the proposed landfill.

Other contaminants

8. The site proposes a range of physical, operational and management controls to minimise the potential for contaminants to impact surface water.

9. In my experience, the proposed controls are consistent with current New Zealand best practice and are appropriate to minimise the potential for contaminants to impact surface water.

Surface water monitoring

10. A comprehensive surface water monitoring programme is proposed for both the construction works and on-going landfill operations. The monitoring programme will include baseline monitoring to assist with setting trigger levels for on-going monitoring and monitoring to identify the potential for the presence of leachate.

11. Overall, I consider the proposed monitoring programme is appropriate to monitor the effectiveness of controls for the proposed landfill cell and to confirm that the proposed measures are effective in managing the potential discharge of sediment and contaminants to the environment.

Conditions

12. I generally support the proposed conditions. My evidence recommended a minor amendment to the number of samples required by Condition 58 (10 compared to six included in the draft conditions). That amendment has been made in the version of conditions attached to Ms Brabant's evidence.

Conclusion

13. Overall I consider that the proposed controls are consistent with relevant guidance documents, and are appropriate for managing the potential sediment generation and discharges from the construction and operation of the landfill and that the proposed monitoring programme is appropriate to monitor the effectiveness of the controls.

Rob Van de Munckhof
28 October 2021