

## Memorandum

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**To** Tabitha Manderson

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**From** Colin Stace

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**Office** Napier Office

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**Date** 6 November 2018

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**File** 5-PO531.05

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**Subject** Section 42 response, Eketahuna WWTP wetland ESCP

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1. Sub-catchment areas have been reviewed and revised. The USLE has been updated based on two sub-catchment areas as follows

- a. 6,560 m<sup>2</sup> - estimated for the wetland pond excavation and part of the adjacent berm (internal batter), and
- b. 1,870 m<sup>2</sup> estimated for the 'external' batter berm section and construction access.

Sub-catchment area and USLE information in the ESCP report have been updated accordingly.

2. In regard to the revised sub-catchment area above, the DEB has been upgraded to a Sediment Retention Pond (SRP), and the ESCP report and drawing 5-PO531.06 C50, EROSION AND SEDIMENT CONTROL PLAN have been updated accordingly. SRP 1 is noted as having a 6560 m<sup>2</sup> catchment area, a required volume of 125 m<sup>3</sup>, and pond dimensions of W -6.5m, L -19.4m and D -1.0 m.
3. The permanent outlet will be installed at completion of earthworks. During construction, pond excavation dirty water flow will be controlled by pond excavation progressing from north to south, working up-gradient and configured on a daily basis to provide dirty water flow paths to the SRP. The SRP will be dewatered in accordance with the applicable section of recommended guidelines - **Erosion and Sediment Control Guidelines for the Wellington Region** (GWRC, 2002) - cited throughout the ESCP report as 'Reference A'. Additional wording has been added the ESCP report to clarify these points.
4. As above, the SRP will use a decant device constructed and maintained in accordance with guideline information set out in Reference A - Section 5.1 (g).
5. Clean water diversions will be installed in accordance with guidelines set out in Reference A - Section 4.1, and will be designed to accommodate flow from a 5% AEP storm event. Wording in the ESCP report has been updated accordingly.
6. Minor changes may be considered to be amendment to installed ESC measures, while major changes might involve redesign or substitution of ESC measures, and wording in the ESCP report has been updated

accordingly. Note: in each case, consultation with HRC staff is specified.

7. The UST is proposed only as a precautionary measure in the event sediment may enter the access track table drain during vehicle movements and. The contributing catchment area is estimated to be less than 3,000 m<sup>2</sup> and is of moderate gradient. The area is fully vegetated and stable and will not be subject to any earthworks activity. Alluvial soils on site are regarded as moderately sandy with low clay content, and the existing track table drain has a 4 % gradient section, separated from the UST site by a relatively flat section of channel approximately 50 m long. Under these circumstances the use of a UST is considered unlikely to create risk of device failure or deficient performance. Similarly, there is unlikely to be a significant sediment discharge and the UST can be removed if that is the preference of the consenting authority.
8. Silt fence guideline references have been updated in the ESCP report, citing further detail of the installation and management of this device given in 'Reference A' - Section 5.3, plus additional information on silt fence installation and maintenance contained in Appendix C referenced per <https://www.austieca.com.au/documents/item/130> . A silt fence maintenance note has also been added to Section 6 of the ESCP report, to the effect that silt fences will be maintained in accordance with guidelines set out in 'Reference A' - Section 5.3 f.