



City of **HOBART**

MEMORANDUM: **LORD MAYOR**
 DEPUTY LORD MAYOR
 ELECTED MEMBERS

LENAH VALLEY FIRE TRAIL

Meeting: City Infrastructure Committee

Meeting date: 25 August 2021

Raised by: Deputy Lord Mayor Burnet

Question:

Can the Director City Amenity please provide an update on the Lenah Valley Fire Trail works and outline the design and material choice in respect to the gabion walls?

Response:

The Lenah Valley Fire Trail crossing repairs have been completed.

The wall failure and the destruction of the fire trail crossing at the rivulet occurred as a result of the May 2018 extreme weather event.

The design of the crossing was influenced by the lack of any substantial bench in the Eastern approaches of the fire trail to the crossing. That required the construction of substantial foundation works on a steep side slope with a very deep, sloping, subsurface bedrock.

The use of gabions was necessary to establish a stable base for the fire trail approaches and for the crossing itself. The engineering design prescribed a stacked gabion structure to raise the fire trail above the stream flow and to armour the trail construction and crossing to protect it from future major stream flows. It also allowed the approaches to meet the required grade and width to allow safe access by emergency vehicles.

The gabions were constructed on site using native rock material won from the excavated material in the construction site. The limited availability of local rocks was supplemented by suitable stone sourced from local suppliers. The rocks were hand stacked and arranged in the gabion baskets to present a natural rock surface to the face that over time will support riparian vegetation and meld into the surrounding landscape.

Any materials brought onto the site, including the supplemented stone in the gabions were certified weed free and clean of any soil as required by the permit issued by the Wellington Park Trust for the reconstruction works. This meant that no weathered rock or stone could be used in supplemental materials.

Re-vegetation will be through natural means due to the lack of soil and the predomination of a bear rock surface.

As signatory to this report, I certify that, pursuant to Section 55(1) of the Local Government Act 1993, I hold no interest, as referred to in Section 49 of the Local Government Act 1993, in matters contained in this report.



Glenn Doyle
DIRECTOR CITY AMENITY

Date: 2 September 2021
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