## PROPOSED REMEDIATION PLAN 1) Decommission both dams. 2) Create a rock lined drainage channel to appropriately drain the area and intersect the springs. The drainage channel to discharge into Paton Creek via a culvert beneath Upper Natone Road. The sizing of the drainage channel and subsequent culvert will need to be determined (hydrology calculations based on the catchment area and spring activity). 3) Seal up landslide headscarp and tension cracks with compacted clay. 4) Install a cut-off drain above the headscarp of the landslide. The cut-off drain is to discharge into the gully to the south. 5) Re-install the cut-off drain along the crest of the cut batter along Upper Natone Road. 6) Batter back or retain the large steep batter as per the recommendations within the Geoton report. Rebuild the road as per the below cross section and recommendations within the Geoton report. 8) Install monitoring equipment to monitor movement (2 x inclinometers). 9) Provide on-going monitoring to determine if further drainage works are required. SECTION C - Proposed Remediation Cross Section As an alternative to benching down the slope and removing all of the Impermeable seal (within spoon drain) landslide deposits a Gabion Basket retaining wall may be installed (founded within the residual granite soils) UPPER NATONE Roadbase ROAD 232 Free Draining Rock Fill Subsurface drain to collect seep: from the intercepted perched water itercept and drain the perched water. table (installed along the toe of the table that is located at the interface between roadworks) he landslide deposits and residual granite soils



226

224

Quaternary Period landslide deposits (basalt soils & cobbles/boulders)

Devonian Period residual granite soils

Devonian Period granite rock

Continue to bench down the slope as

required, removing

the landslide deposits

and replacing with free draining rock fill

Perched water table along interpreted slip plane Geofabric

Free drainage rock fill



Dam inundation zone

Possible location of rock lined drainage channel

LiDAR 1m contours (2013)

Proposed cut-off drain

Proposed subsurface drain

Seepage collection point

PATON

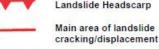
CREEK

### BURNIE CITY COUNCIL 512 UPPER NATONE ROAD UPPER NATONE 28/02/2023 drawn date MS As Shown approved TB REMEDIATION PLAN project no: A3 rev. GL 22672A

# SITE PLAN Dwelling/ (no.152) DRAINAGE GULL Approximate Scale (m) 75 100

# Legend

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Large tension cracks

Dam embankment





Spring

