

PSM5226 McCrae landslide

From: Dane Pope <dane.pope@psm.com.au>
To: Daniel Tolan <daniel.tolan@civiltest.com.au>
Cc: Matt Glover <matt.glover@mornpen.vic.gov.au>, PsmAdvice <psmadvice@psm.com.au>
Date: Mon, 13 Jan 2025 11:14:55 +1100
Attachments: Methodology 10-12 Viewpoint Rd Dromana.pdf (136.4 kB); Proposed works 10-12 Voewpoint.pdf (1.02 MB)

Hi Daniel,

As discussed, the rock bags:

- Are likely to surcharge the existing slip plane and not act in a manner that will address the reported collapse/progressive loss of material behind the retaining wall.
- May be unstable due to the buried geometry of the slip plane. i.e. they are proposed to be placed on steep slopes with a wet clay plane at the base of the slip. As discussed, you would need to key the bags in to be effective and this may not be practical given the safety restrictions downslope of the slip.
- Require movement of the retaining wall so that the bags could be laterally loaded and act as a buttress. i.e. you cannot wish a buttress in place in a pre-loaded condition. Even if they could be placed there, they will not stop migration of fines and may not stop rotation of the wall or movement of soil between the bored piers.

If the owner wants to meaningfully reduce risk, they should unload the active side of the retaining wall. i.e. remove planter boxes within influence of the slip and unload some of the back fill. This reduces the driving forces in the landslide immediately.

Regards,

Dane Pope

Principal | BE (Hons), MEngSc, MIEAust, CPEng, RPEQ

Direct: (03) 7068 5699

| Mobile: Irrelevant & Sensitive

| Dane.Pope@psm.com.au

From: Daniel Tolan
Sent: Monday, 13 January 2025 9:17 AM
To: Dane Pope
Subject: FW: McCrae landslide (January 5)
Importance: High

Morning Dane,

Our immediate works plan is to create a batter against the main scarp with porous rock bags. We will use around 30 bags (1.25t). Additionally the aggie in the retaining wall is going to be extended out such that it drains six metres or so downstream of the point where the groundwater is coming out. I've also told Gerry that the non-porous paved area should be sandbagged to prevent surface runoff (This is just the entrance to the stairs I believe, but I am reattending the site this week so I will make sure there are no potential areas where water will be able to drain to the scarp). I will be issuing a report later today or tomorrow, do you have any general comments on this proposal?

[Rock Bags](#) | [Barriers & Gabion Alternative Erosion Solutions](#)

Regards,

Daniel Tolan

Geotechnical Engineer



CIVILTEST PTY

P: (03) 5975 6644 **M**

Irrelevant & Sensitive

E: Daniel.Tolan@civiltest.com.au

A: PO Box 537 (10 Latham Street) Mornington VIC 3931

W: www.civiltest.com.au

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From: Matt Glover Matt.Glover@mornpen.vic.gov.au>

Sent: Monday, 13 January 2025 8:43 AM

To: Daniel Tolan Daniel.Tolan@civilttest.com.au>;

Irrelevant & Sensitive

Dane Pope Dane.Pope@psm.com.au>

Subject: FW: McCrae landslide (January 5)

Importance: High

Hi Dan, Can you please liaise with Dane Pope, who will act as council's expert on making safe arrangements, who will guide me to make a determination?

Regards,

Kind regards,



MATTEO GLOVER | Municipal Building Surveyor (AiFireE, MPIA, MAIB)

OFFICE OF THE MBS

Email: matt.glover@mornpen.vic.gov.au

Phone: 03 5950 1060 |

Private Bag 1000, Rosebud VIC 3939 | 2 Queen Street, Mornington VIC 3931

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My typical flexible working arrangements are: 7:15 am to 3:45 pm

Monday



Tuesday



Wednesday



Thursday



Friday

Mornington Peninsula Shire acknowledges and pays respect to the Bunurong people, the Traditional Custodians of these lands and waters.

We are committed to carbon neutrality.

From: MPSC Building Permits MPSCBuildingPermits@mornpen.vic.gov.au>

Sent: Monday, January 13, 2025 8:15 AM

To: Matt Glover Matt.Glover@mornpen.vic.gov.au>

Subject: FW: McCrae landslide (January 5)

From: Gerry Borghesi

Irrelevant & Sensitive

Sent: Friday, January 10, 2025 4:47 PM

To: MPSC Building Permits mpscbuildingpermits@mornpen.vic.gov.au>

Subject: McCrae landslide (January 5)

Attention: Matt Glover

Matt, status as of 4:30pm:

MAW Civil have prepared the attached **methodology** and **stabilization scope of works** for your review. Please advise any comments as the work will commence early next week.

Dan Tolen (CivilTest) will review and approve the attached scope of work. We will forward Dan's approval once received.

The scope of works will include the extension of the existing retaining wall 'ag' drain with a non-slotted pipe to a point at least 6m downstream of the head scarp to address surface water. Dan confirmed that this action addresses MPSC's 'Owners - action items' (received 9 January 2025) point 3.

These actions will complete the responsibilities identified for our property (P1) in the 'Owners-Action Items'

We request continued updates from MPSC on the identification of the source of the water flow and actions being taken to redirect or manage the water flow onto our property.

Regards,

Gerry and Bronwyn Borghesi

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