

RE: PSM5665 Impacted / at danger properties - Landslip site [IMAN-ACTIVE.FID870964]

From: Dane Pope <dane.pope@psm.com.au>
To: Leesa Hovendene <lhovendene@ha.legal>
Cc: Ben Broadhead <bbroadhead@ha.legal>, James Wang <james.wang@psm.com.au>
Date: Wed, 22 Jan 2025 08:30:00 +1100

Hi Leesa,

These will be by planning approval and some are much older than 3 years. The planning should be able to pull the approved drawings for a lot of the houses. E.g. Matt tracked down a lot for 3 Penny Lane. I have the slab drawing for 6 View Point etc. In doing this, the supporting and stamped **soil test report** will be helpful. They can help to build a geotechnical model to support a risk assessment.

I am particularly curious about the more modern builds, old ones not so much. That is

- ☐ * 6 View Point,
- ☐ * 10-12 View Point we have there alteration plans already
- ☐ * 16 View Point (was built post AGS 2007)
- ☐ * 4 View Point
- ☐ * 16 Prospect Hill Road
- ☐ * 599 Point Nepean Road.

To support the groundwater investigation the following properties have had water quality testing done on their sump pump outlets

- ☐ * 1 Prospect Hill Road (<5 years old)
- ☐ * 5 Prospect Hill Road (<5 years old).

Can Council please provide the drawings and Geotech on file. Particularly interested in 5 Prospect as the owner reported ground water in his intrusive investigation.

Requesting the soil test reports so we can further target our intrusive works.

For Council - records from Fulton Hogan for construction of stormwater useful on View Point. Repairs and testing to Charlesworth Street (this year). Water chemistry testing that Enviro team completed on behalf of Building Inspector team. Camera inspections of stormwater on View Point.

For SEW - I believe they have pressure tested, camera inspection etc of assets on View Point. Water chemistry testing if available.

i.e. it would be nice to see the facts from all investigations done by asset owners in the past two weeks. Council and SEW should have these.

Dane Pope

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Irrelevant & Sensitive

| Dane.Pope@psm.com.au**From:** Leesa Hovendene <lhovendene@ha.legal>**Sent:** Tuesday, 21 January 2025 9:55 AM**To:** Dane Pope <Dane.Pope@psm.com.au>**Cc:** Ben Broadhead <bbroadhead@ha.legal>; James Wang <james.wang@psm.com.au>**Subject:** RE: PSM5665 Impacted / at danger properties - Landslip site [IMAN-ACTIVE.FID870964]

Thank you Dane.

Is there a timeframe for the recent changes/cuts in the excavation area? We have suggested Council provide a few years back at least.

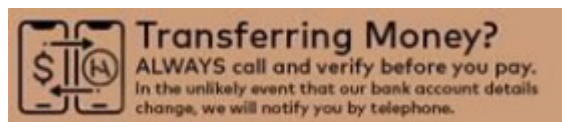
Further, there is the SEW and storm water information, do you also require plans and details of works (eg upgrades and fixes) undertaken? (for example, along View Point Road drainage) or otherwise to services around the landslip? Happy to discuss this over the phone if that's easier (0408 222 969)

Kind regards

Leesa Hovendene
Associate



03 5225 5230

lhovendene@ha.legalharwoodandrews.com.au

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From: Dane Pope <Dane.Pope@psm.com.au>**Sent:** Tuesday, 21 January 2025 6:45 AM**To:** Leesa Hovendene <lhovendene@ha.legal>**Cc:** Ben Broadhead <bbroadhead@ha.legal>; James Wang <james.wang@psm.com.au>**Subject:** RE: PSM5665 Impacted / at danger properties - Landslip site

Hi Leesa,

Risk to life:

- ☐ * Council records regarding:
 - o * the 1952 Landslide.
 - o * Landslides on Arthurs Seat in general (should be in there GIS)

The following will support the risk to life work and liability

- ☐ * All Council stormwater facts

- * Water testing – needed to support investigation into water sources and ground water model (risk to life)
- * Videos of stormwater investigation - as above
- * All SEW factual information regarding sewer, water main, etc investigations including field and laboratory testing. – as above
- * Recent permits for alterations including earthworks and cuts in the immediate evacuation area.

Regards,

Dane Pope

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| Dane.Pope@psm.com.au

From: Leesa Hovendene <lhovendene@ha.legal>

Sent: Monday, 20 January 2025 3:54 PM

To: Dane Pope <Dane.Pope@psm.com.au>

Cc: Ben Broadhead <bbroadhead@ha.legal>

Subject: FW: PSM5665 Impacted / at danger properties - Landslip site

Subject to legal professional privilege

Dear Dane,

We refer to our meeting this morning and your email below.

Can you please confirm what information you will require from Council in order to conduct your assessment of:

- a. a. the risk to life to the properties affected/potentially affected by the landslip (noting the area will be the properties to which Council has issued EO's);;
- b. b. the susceptibility of the escarpment to further landslips; and
- c. c. remediation advice in relation to the landslip area only (noting we understand this will be the remediation of the landslip site to tolerable risk that would allow the EO's to be removed).

We refer to the list in your below email, which also includes information PSM is gathering (rather than information to be provided by Council).

Please feel free to contact us if it is more convenient to discuss the above.

Kind regards,

Leesa Hovendene
Associate

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From: Dane Pope <Dane.Pope@psm.com.au>
Sent: Friday, January 17, 2025 2:15 PM
To: Jack Divers <Jack.Divers@mornpen.vic.gov.au>
Cc: Claudio Flores <Claudio.Flores@mornpen.vic.gov.au>; Garry Mostyn <Garry.Mostyn@psm.com.au>; PsmAdvice <PsmAdvice@psm.com.au>; Ben Broadhead <bbroadhead@ha.legal>; Andrew Brick <andrew.brick@mornpen.vic.gov.au>; Dale Gilliatte <dale.gilliatte@mornpen.vic.gov.au>; Emily Harkin <Emily.Harkin@mornpen.vic.gov.au>; Rory MacDonald <Rory.MacDonald@mornpen.vic.gov.au>
Subject: PSM5665 Impacted / at danger properties - Landslip site

Jack,

We have not accessed all Sites to inform this decision. We don't know with certainty the technical basis behind the SES decision. From talking with Mark (the Incident Controller) I believe he made the decision.

The following information needs to be considered to allow PSM to properly advise council:

- ☐ * LiDAR
- ☐ * Potential landslide sources on each property (ground truthing the lidar)
- ☐ * All Council stormwater facts
 - * Water testing
 - * Videos of stormwater investigation
- ☐ * All SEW factual information regarding sewer, water main, etc investigations including field and laboratory testing.
- ☐ * Council records regarding:
 - * the 1952 Landslide.
 - ☐ * The owner of No. 4 View Point was well aware of it and may have some information.
 - ☐ * Luke Jackson (civil infrastructure MPSC) parents live on that section of road and may have further information.
 - * Recent permits for alterations including earthworks and cuts in the immediate area.

Two failures of significant enough size and velocity have written off a house and could have killed an individual on two separate events; this alone is rare in Australia. As we understand at this stage, the initial event on the night of the 5th January 2025 was triggered in dry, hot weather. Often rainfall is a reliable indicator. In this case it is not; again this is unusual absent human induced failure. We cannot use rainfall to reliably condition an evacuation order (EO). What this means is we need to understand if there are landslide sources on the properties. Where these are informs who needs to be evacuated.

I have had restricted access this week. I had a useful walkover yesterday (16/01/2025) with a view to understanding landslide sources. The area broadly inspected is in the blue polygon below.



With regards to Properties outside of the polygon these would need to be inspected to inform the decision. Furthermore, a more comprehensive mapping exercise should be conducted to support the EO (including where I walked as it was a brief inspection).

We recommend Council install a monitoring system (likely includes RADAR and conventional total station survey systems) as a matter of urgency. This can then be used to inform safety regarding access and then later inform the decisions relating to repairs/getting people back into their homes. I have a meeting with a radar supplier today to understand capabilities given the access constraints.

To advise on potential EOs, PSM would as a minimum need to:

- ☐ * Ground truth the LIDAR data with a field mapping exercise
- ☐ * Consider the above facts requested (there may be more information we need including commissioning independent water quality testing)
- ☐ * Conduct an assessment of risk to life.

This is not an exercise that can be completed today. It's a significant body of work one of which we have capacity to commence immediately. PSM has the resources on standby to commence the assessment. Council is working to understand if and how we would be engaged.

As we understand it, Council has powers to evacuate without this study. We discussed with your legal and planning team the implications regarding extent of the EO. Council could issue the EO and with that invite the owners to seek independent geotechnical advice in the interim. If the owners engage their own

Geotechnical engineers to provide advice, we/council can consider those opinions. We note that it would be easy to advise council to issue a wide swathe of EOs, this would result in many people evacuating that did not, in hindsight, have to do so and, once done, it may be difficult to justify re-occupation. Our approach will be to provide council with advice such that it can evacuate properties for which there is a proper basis to do so and for which there would be a proper basis to re-occupy.

Given that both Council and SEW are making concentrated efforts to potentially reduce water infiltration in the catchment area we recommend as a matter of urgency that all property owners in the immediate catchment (downslope of the escarpment and upslope to the motorway) are issued with notifications to cease all unnecessary use of water i.e. drought-like water restrictions. This is due to the uncertainty that remains regarding water sources. Further advice regarding investigation of water sources can be provided under separate cover (including investigations on View Point that can follow the installation of monitoring equipment).

Regards,

Dane Pope

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| Dane.Pope@psm.com.au

From: Jack Divers <Jack.Divers@mornpen.vic.gov.au>

Sent: Friday, 17 January 2025 9:40 AM

To: Dane Pope <Dane.Pope@psm.com.au>

Cc: Rory MacDonald <Rory.MacDonald@mornpen.vic.gov.au>; Claudio Flores <Claudio.Flores@mornpen.vic.gov.au>

Subject: Impacted / at danger properties - Landslip site

Hi Dane,

We will be issuing the EO's today for the affected properties to vacate.

Can you please confirm which properties currently are in danger / danger to life.

We need to ensure this marrys up with the EO's that we issue today.

Give me a call any questions.



JACK DIVERS | Municipal Building Surveyor

Email: jack.divers@mornpen.vic.gov.au

Phone: 03 5950 1937

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