

**From:** [REDACTED]  
**To:** [Tony Marks](#); [Morris Edwards](#); [Samindi Yapa](#)  
**Subject:** FW: Re Beveridge West PSP  
**Date:** Friday, 11 October 2019 1:15:10 PM

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Hi all

Please find a copy of the comments sent to Mark Knudsen and Rachel Dapiran on the Beveridge Northwest PSP

I am happy to have further discussions

Regards

[REDACTED]

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**From:** [REDACTED]  
**Sent:** Friday, 11 October 2019 1:04 PM  
**To:** 'rachel.dapiran@vpa.vic.gov.au' <rachel.dapiran@vpa.vic.gov.au>  
**Subject:** Re Beveridge West PSP

Rachel

I sent this email to Mark Knudsen – not realising he is now in semi-retirement

I am a water quality and waterway consultant and have done a lot of work across Melbourne. I have been involved in the Kalkallo Catchment and the upper Merri for some time.

The following is the text of what I sent to Mark – I think there is a major problem that must be confronted

I haven't made a formal comment on the PSP, but none the same I am deeply concerned about the PSP and in particular any development on the steep Kilmore terrain (sedimentary system) west of Kalkallo Creek.

This terrain is steep and suffers from a highly erosive soil profile, sodic, saline and structureless. We have deep erosional heads on all the streams – that are almost beyond our capabilities to stabilise being high slaking and dispersive. Further, there is wide sheet rill and tunnel erosion. One of the things we know is that the products from the erosion do not settle in any sediment traps – being so fine that they are non-settleable - being mostly colloidal, but with some very fine silt. These soils are not appropriate to be used for intense development such as urban development, let alone for schools and shopping centres. They are already eroding under the existing rural land uses. **Simple the erosion risk is extreme.**

The consequences of development of this area are that water quality in Kalkallo Creek will be grossly impacted and in a manner that is beyond our capability to address either in the development and building phase through to the mature phase. The existing erosion in Kalkallo Creek is in the too hard basket – very problematic and does not lend itself to the range of current stream stabilisation techniques. To subject these streams to increased runoff from urban development will see these streams become highly unstable and a management liability – a pending disastrous outcome. MWC's Kalkallo Creek DSS has failed to identify the extent of the problem and the huge potential for massive erosion to occur. This is due to the soils and lack of bed rock and salinity.

There is also some potential for land slip in the steeper parts of the terrain

The boundary of the sedimentary/basalt flow zones have not been mapped and there needs to be an extensive study done of the capability and impacts of all the terrain. Further the basaltic soils have been derived from at least 2 eruption points with varying geochemistry. Again the likelihood of high erosional and salinity impacts are likely.

I urge that VPA pause the finalisation of the PSP, and undertake a very thorough land capability assessment with a view to erosion and Water Quality impacts on the streams.

Simply to develop large areas of this terrain is liable to cause major problems.

I trust you will pass this comment onto the PSP team and even your CEO.

Regards

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