

From: [Burgess, Kelly](#)
To: [Robyn Burns](#)
Cc: [Philip McKay](#)
Subject: RM210103 - Geotechnical Peer Review
Date: Wednesday, 12 May 2021 12:41:16 PM
Attachments: [image003.png](#)
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[image007.png](#)
[image010.png](#)
[image011.png](#)
[image012.jpg](#)

Hi Robyn and Phil,

I've received the Geotech peer review a little earlier than expected, please see below:

As part of the Stantec commentary on the consent application, we have undertaken a review of the Initia Geotechnical Specialists Preliminary Geotechnical Report REF P-001061 REV 1, dated April 2021. – contained in Appendix D of the application

Our general review of this report follows:

- Although this is a "preliminary" report, with further requirements for site specific confirmation of ground conditions at Building Consent stage, we acknowledge that the testing undertaken has good coverage and depth sufficient to undertake the assessment for the proposed subdivision.
- Although testing is limited to less than 4m depth below ground, there is well mapped geology indicating that sandy gravels are likely to persist below this.
- The report acknowledges that "No deep investigation data is available for the site, however, based on the geomorphology of the site, the depth to rock is likely to be deep (>20 m)."
- Variable ground water level is anticipated, with seasonal changes
- The Initia assessment is that "the risk of surficial expression of liquefaction across the site is considered negligible, based on the information collected in the investigation"

Our assessment is that the Initia report has been done in a professional manner and is suitable for the task of the consent application

The Environmental Solutions, Detailed Site Investigations report Reference Number: REP-H0151/DSI/APR21, notes the presence of Farm refuse dumps. The ES report is primarily tasked with assessing the potential contamination issues associated with these sites. Notwithstanding this, there are potential geotechnical risks associated with building any foundations on ground affected by uncontrolled fill.

Advice

- The site area is underlain by alluvial sandy gravels with cobbles and boulders which are variably capped by very stiff to hard silt.
- Site specific investigations should be undertaken at building consent phase for development within the respective lots to confirm the underlying near surface materials.
- Locations where farm-dumping has been identified should also be highlighted on title as posing a potential risk to foundations constructed in these areas
- Alternatively, the sites could be remediated with removal of un-engineered fill, and replacement with engineered fill.

If you have any questions regarding this review, please feel free to contact us.

Kind regards,

Kelly Burgess

Project Management Assistant

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From: Robyn Burns <robyn.burns@chbdc.govt.nz>

Sent: Tuesday, May 4, 2021 8:09 AM

To: Burgess, Kelly <Kelly.Burgess@stantec.com>

Subject: RM210103Peer review technical reports

Hi Kelly,

This is a large scale, 312 rural development on the corner of Wakarara Rd and SH 50 – 16 proposed stages.

The site is relatively flat, free draining and has no known hazards but given the scale and intensity a peer review of the following technical reports is required:

- DSI (NES)
- Geotech
- Transport (vested road, Waka Kotahi approval all but completed)
- Engineering services
- Onsite waste water management (accumulate effects consideration in particular)

The files are large and can be downloaded using the link below.

https://chbdouncil-my.sharepoint.com/f/g/personal/robyn_burns_chbdc_govt_nz/EhW67XVlnJ5Pg83bBKMVXv4BZtZ8gOdDVvpiM8pwjVkjBQ?e=WaT2ln

Please let me know if you require clarification on anything.

Many thanks,


Robyn



Robyn Burns
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