

27 June 2018

Michael Hundleby  
Director  
Critical Projects  
Ministry of Health  
Wellington

By email ([stephanie\\_buick@moh.govt.nz](mailto:stephanie_buick@moh.govt.nz))

Dear Michael

#### Earthquake Prone Buildings – Quarterly Report on Building Seismic Assessment

Please find attached the report for CMDHB. We note that reporting will be 6 monthly in 18/19.

Since our last report to you of February 2018, we have had the following progress:

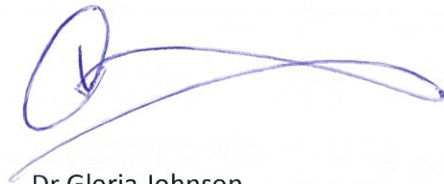
- **Galbraith Seismic Assessment:** We received the final Beca independent structural review that has confirmed the Holmes findings. In short, the seismic rating for Galbraith is 20% of NBS for IL4 functions and it is, therefore an earthquake prone building. In May 2018, we notified the Auckland Council and have made public that Galbraith is an earthquake prone building. We are in the process of supporting Board decision making on remediation options to inform future capital investment decisions. Advice from engineering consultants confirm that the economic cost of full remediation (strengthening columns and stairwells) will be prohibitive (>\$75m). While we appreciate that Galbraith may not be regarded as the most urgent case given the low seismic risk of the Auckland Region (that is already factored by the lesser seismic requirements of the regions building standards), the life safety risk consequences are extreme. Galbraith houses services and functions that are essential post disaster such as radiology, and acute maternity assessment and birthing services and critical infrastructure supporting all Middlemore Hospital site buildings. The Board has supported management to continue short term use of Galbraith building as there are no local or regional location alternatives for these services. We have commissioned an additional assessment of the Galbraith critical infrastructure resilience in the event of moderate to major earthquake. Preliminary results indicate notable risks to medical gas and chilled water supply to critical care services such as ED, ICU, HDU and the National Burns Unit. The final report is due by the end of June 2018.
- **Galbraith seismic risk impacts:** The detailed seismic assessment report indicates that the building has a 75-95% risk that it will be permanently inoperable after a moderate to major earthquake. This impacts both local and regional post disaster capacity and permanent service coverage/capacity for inpatient and ambulatory services unless new facilities and infrastructure investments are progressed. Preliminary risk impacts have been tabled with local and regional

leaders to assess impacts on our emergency response capacity with a view to updating emergency plans as appropriate. CMDHB has completed a full Galbraith evacuation plan that outlines a net loss of 75 medical/surgical and 15 maternity beds, 12 birthing rooms and the entire Main Radiology Department (CT, MRI, x-ray, ultrasound and interventional). Further, we will lose histology and day procedure service capacity for gastroenterology, ophthalmology, oncology and plastic surgery. The NRLTIP outlines capacity pressures across the three metro Auckland DHBs and this limits ability for the metro Auckland DHBs to manage these net capacity losses should the Galbraith building infrastructure fail. The Board will consider the full seismic strengthening options in context of the immediate demand and remediation capital investment priorities for the DHB in September this year. The Board will decide whether a business case for remediation of Galbraith will progress and its scale; or whether options for alternative location of maternity birthing services and women's health is accelerated instead while short term occupation of Galbraith continues.

- **Seismic Assessments for remaining buildings** With Galbraith assessments now completed, we are currently preparing to procure further independent seismic engineering consultants to undertake updated seismic assessments of those remaining CMDHB buildings identified as potentially of earthquake risk. We intend to prioritise buildings with inpatient services.

As Acting CEO, believe that I am taking all reasonable and appropriate steps to identify and manage the seismic risks that may exist within our buildings and working regionally to identify emergency response impacts and risk mitigation opportunities.

Yours sincerely



Dr Gloria Johnson  
acting Chief Executive  
**CM Health**