

**PART 2: LAND STABILITY, FOUNDATIONS AND EARTHWORKS****WDC has the following documents:**

- Institute of Geological & Nuclear Sciences (IGNS) Reports. (Copies held by WDC Emergency Manager):

<i>Report No.</i>	<i>Title</i>
2A,B	Active Geological Structures, Earthquake Scenarios
3	A Numerical Assessment of the Earthquake Hazard in the Manawatu Wanganui Region
4A	Geological Setting & Earthquake Hazards, Lifeline Vulnerability & Analysis of Possible Damage
4B	Characteristics of Near Surface Geological Conditions in Urban Areas of Manawatu Wanganui Region
4C	Measurement of Earthquake Ground Shaking in Palmerston North & Wanganui
4D	Assessment of Liquefaction-induced Ground Failure Susceptibility in Manawatu Wanganui Region
4E	Ground Shaking Hazard Assessment for Urban Centres of Manawatu Wanganui Region

- Aerial photography – current and historical vertical aerial photography of the urban area is held by WDC. WDC also has rural aerial photography. Old stereo pairs are held by WDC Planning Services. The Regional Council holds district wide aerial photography.

**2.1 Scope – No change****2.2 General – No change****2.3 Technical responsibilities – No change****2.3.1 Geotechnical works**

Add the following new clause:

Need for a certification statement shall be provided by a by a Chartered Professional Engineer (Geotechnical Engineer) as to the land suitability for the type of activity eg Statement of Stability of Land for Subdivision, Statement of Suitability of Land for Building Development, Statement of Suitability of Land with fill placed on the site. This requirement is usually set as a condition of subdivision consent ie S224 Certificates.

**2.3.2 Preliminary site evaluation – No change****2.3.3 Construction control testing – No change****2.4 Planning and design – No change****2.5 Stability criteria – No change****2.6 Special soil types – No change****2.7 Compaction standards for fill material – No change****2.8 Erosion, sediment and dust control – No change****2.9 Seismic considerations – No change****2.10 Lifeline systems – No change**

**2.11 Final documentation – No change**

**2.11.1 Geotechnical completion report – No change**

**2.11.2 As-built drawings for earthworks and drainage**

Add the following:

Developer to provide cut / fill contour to show changes in the original ground level. This is required where earthworks exceed 100 square metres and or the depth exceeds 600mm. For fill areas compaction results are required in terms of Appendix I, Section 2.

See drawing WDC-CM-02 – Cut / Fill Depth Contours in Appendix A.