

4. LAND STABILITY AND EARTHWORKS

4.1 General

This section covers the Kaipara District Council requirements for earthworks relating to subdivision and development.

Design and quality assurance shall comply with Sections 1 to 3 of these Engineering Standards.

4.2 Resource Management

All earthworks shall be constructed in accordance with the requirements of the Northland Regional Council, especially with respect to the protection of natural water bodies from silt which arises from the works. The provisions of the Regional Water and Soil Plan for Northland, Regional Coastal Plan for Northland and Regional Air Quality Plan for Northland shall be complied with. Where required under the rules of the regional plans, resource consents for the proposed earthworks shall be obtained from the Northland Regional Council prior to carrying out the activity.

Resource consents may also be required for earthworks under the District Plan. Any resource consents required shall be obtained from Kaipara District Council prior to carrying out the activity.

4.3 Erosion, Sediment and Dust Control

All earthworks shall incorporate stormwater controls including watertables, grade control structures and cut-off drains and any other runoff control measures necessary to prevent scour from channelled water and to minimise and control sediment discharges, erosion and dust generation and satisfy the requirements of the Regional Water and Soil Plan for Northland.

Guidance Note:

Acceptable guidelines for erosion and sediment control are documented in the ARC publication TP90.

4.4 Design of Earthworks and Geotechnical Requirements

All Earthworks shall be investigated and designed in accordance with the requirements of NZS4404:2010.

Building foundations, including land stability beneath buildings, shall be designed and constructed in accordance with the Building Act 2004 and the New Zealand Building Code Verification Method B1/VM4.

The minimum factors of safety for earthworks that may impact on Council owned infrastructure shall be 1.5.

4.5 Construction Specification and Quality Control

Earthworks which require certification shall be investigated, designed and constructed as specified in NZS4404:2010 "Land Development and Subdivision Engineering" Part 2 (Land Stability, Foundations and Earthworks).

Earthworks for road formations shall be constructed in accordance with NZTA standard specification F/1 "Earthworks Construction".