

Geotechnical Report Requirements

Geotechnical Reports must be prepared by a professional engineer or geoscientist who is experienced in geotechnical engineering. Any report prepared in support of a land development application **must** contain the following:

1. Identification of the subject property

The legal address as printed on a current state of title, and a civic address if one is assigned.

2. Intended use of the subject property

Description of the intended use of the property that corresponds to the proposed development being considered by the Regional District of Nanaimo. (e.g. *The intended use of the property is the construction of one single family dwelling, accessory buildings and an on-site liquid waste water system*).

3. Credentials

A statement that the professional engineer or geoscientist is:

- Adequately experienced in geotechnical engineering
- Is a member in “good standing” with the Engineers and Geoscientists of British Columbia.

4. Scope

Scope of the proposed development and duration of engagement.

5. Seismic Design

The development must meet the 2 per cent in 50 years.

6. Flood design

- The development in riverine areas must meet the 1:200 year return for flooding.
- The development in marine areas must meet the 1:200 year return for sea level rise, specifically: 0.5 per cent AEP and 1.0 meter Relative Sea Level Rise plus 0.6 meters Freeboard. Given this standard, the flood level is calculated based on the Probabilistic Method.
- Inclusion of a completed “Appendix I Flood Assurance Statement”, consistent with Engineers and Geoscientists of BC’s *Professional Practice Guidelines – Legislated Flood Assessment in a Changing Climate in BC* and as its amended from time to time;

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7. Identified Hazards

The Qualified Professional shall:

- Prepare a report consistent with Engineers and Geoscientists of BC's *Professional Practice Guidelines - Legislated Flood Assessment in a Changing Climate in BC* and as its amended from time to time;
- Describe the method of hazard or risk analysis used;
- Referred to an appropriate and identified provincial, national or international guideline for level of safety;
- Compare the guidelines with findings of his/her investigation;
- Make a finding on the level of safety on the property based on the comparison;
- Make recommendations to reduce hazards and risks; and
- Report on the requirements for future inspections of the property and recommend who should make those inspections.

8. Landslide assessment

Inclusion of a completed "Appendix D Landslide Assessment Assurance Statement", consistent with *Engineers and Geoscientists of BC's Guidelines for Legislated Landslide Assessments for Proposed Residential Development in BC*, and as amended from time to time.

9. Safety and Suitability


This report has been prepared in accordance with standard geotechnical engineering practices, and at the expense of **(insert name of owner)**. **(insert name of engineer or engineering firm)** has not acted for or as an agent of the Regional District of Nanaimo in the preparation of this report.

(insert name of engineer or engineering firm) certifies that the land may be used safely for the use intended **(insert description of project)** if the land is used in accordance with the conditions specified in this report.

(insert name of engineer or engineering firm) acknowledges that this report may be used by the Regional District of Nanaimo as a precondition to the issuance of a permit and that this report and any conditions contained in this report may be included in a restrictive covenant under section 56 of the *Community Charter* and filed against the title to this subject property.

For more information, please contact:

Building Inspection Services
Regional District of Nanaimo

 250-390-6530

 buildings@rdn.bc.ca

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