



Guide to Geotechnical Reports

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 City of Courtenay. (e.g. *The intended use of the property is the construction of one single family dwelling, accessory buildings and an onsite 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. Design

The development must meet the probability of a geotechnical failure of less than:

- 2% in 50 years (annual probability 1:2,475) for hazards due to seismic events, including slope stability; and
- 10% in 50 years (1 in 475 years) for all other geotechnical hazards.

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 1:100 year return for sea level rise.
Inclusion of a completed “Appendix I Flood Assurance Statement”.

7. Identified Hazards

The Qualified Professional shall:

- 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. Land slide assessment

Inclusion of a completed "Appendix D Landslide Assessment Assurance Statement ".

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 agent of the City of Courtenay 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 City of Courtenay 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.