



## Slope stability appraisal report

The slope stability appraisal report is intended to provide cost effective assurance, professional recommendation and peace of mind to those who may have a soil or rock slope on their property.

An unstable slope face, whether in soil or rock, represents a hazard to both life and property. Even comparatively small slope failures are capable of mobilising a substantial mass of material, capable of damaging and destroying property and causing injury.

At **Cornwall Consultants Ltd** we are able to provide experienced and qualified engineering geologists who are able to visually assess ground conditions and slope stability on site. In many cases the slope stability appraisal report can provide sufficient assurance and recommendation to mitigate risk of failure, and the need for costly site investigation and analytical slope stability assessment is avoided.

The slope stability appraisal report is provided as part of a suite of slope stability products and services that are provided by Cornwall Consultants Ltd. In the event that further analytical and quantifiable assessment is required, Cornwall Consultants Ltd can undertake these works, as well as providing recommendations for cost effective slope face treatment and remediation.

### Slope stability appraisal: What is involved...?

#### Site inspection:

In the first instance Cornwall Consultants Ltd will attend site to undertake a walkover inspection of the slope in question. The walkover inspection will be undertaken by a qualified engineering geologist, with extensive experience in the appraisal and assessment of soil and rock slope stability. The walkover inspection will assess the following:

- *The geometry of the slope:* Including slope height, gradient, vertical and horizontal extent;
- *The ground conditions and hydraulic regime:* What are the ground conditions, the extent of vegetation cover, and how the slope is impacted by ground and surface water;
- *Indications of slope failure / movement:* Existing or ongoing slope movement may indicate the slope face is in a critical state of stability, and will also indicate likely mechanisms for future slope failure;
- *Who or what is at risk?* In the event of slope failure, who or what are at risk of damage or injury?

#### Reporting and recommendations:

Following on from the walkover inspection, Cornwall Consultants Ltd will provide a concise letter report with a summary of the findings. If required, we will also provide recommendations for ongoing management of the slope, typically this may involve monitoring the slope on a regular basis for any risk factors associated with ground movement, particularly after periods of heavy rainfall, extreme weather, or any changes in land usage.

**Cost: From £450.00** (costs are exclusive of VAT, costs may vary depending on location)

#### Further works

In the event that the slope stability appraisal report highlights significant risk factors, Cornwall Consultants Ltd can provide recommendations on appropriate and cost effective remedial measures. Depending on the nature of the slope, these may include slackening of the slope face gradient, removal of unsafe material from the slope face, removal or control of groundwater (drainage) and in some cases proactive slope stabilisation measures (installation of mesh, soil nails, bolts, grouting etc.)