

## Purbeck View School, Swanage

### Our Services

- Desk Study
- Intrusive Site Investigation
- Computer Modelling and Analysis
- Expert Advice



### Slope Stability Assessment

**CGL** undertook a site investigation and analysis to determine the stability of a slope showing signs of instability with cracking along its crest. The slope ranged in height to approximately 6m with a gradient between approximately 1:2 to 1:1.2 (v:h).

Badgers had also been burrowing into the slope, although efforts had been made to remove the badgers by licence consent.

The ground conditions were determined from a desk based review and intrusive investigation, followed by geotechnical analysis of recovered samples.

A slope stability assessment was undertaken based on the soil parameters determined from the site investigation data and published sources. Surface loads were modelled to simulate vehicle loadings and foundation loads from the listed

building adjacent to the slope. The analysis was modelled using the SLOPE computer program. The analysis confirmed that the slope is unstable in its current profile.

**CGL** recommended a range of remedial options, varying according to site limitations and topography, necessary to stabilise the slope and achieve satisfactory long-term safety.

Client: Cambian Education Services