

Goosnargh Mill Landslip

Project Description Sheet



Location

Goosnargh, Lancashire

Client

Dr Forbes

Completed

August 2006

Key Project Elements

Slope Assessment
Ground Investigation
Slope Stability Design
Earthworks Modelling
Interpretative Report
Insurance Claim

PSA Design were contacted to inspect a slope failure that had resulted in a slope adjacent to a property becoming unstable and slipping onto the home owner's land.

The likely cause of failure was a sequence of events that contributed to a sequential reduction in the stability of a slope that was already close to limit equilibrium. These events were; the removal of a tree and a period of heavy prolonged rainfall that increased pore water pressures in the slope.

Slope stability analysis was carried out using the the Geo-Slope SLOPE/W program modelling software.

Following assessment of the slope an options study was carried out to find the most cost effective remedial design. Recommendations were provided to revise the local drainage and provide a suitable re-grading profile for the slope.

Advice was given to the client in terms of his insurance claim with the likely causes and trigger mechanisms for the landslip.

PSA Design provided design services for the site including geotechnical, drainage earthworks and environmental design.