

Reference Project

Geotechnical Slope Stabilisation

The economic mitigation of a slip which was progressively undermining the house above.

Location	Major Drive, Lower Hutt
Date	11 December 2019
Client	Private
Consultant	Coffey Engineering Consultants

A small slip above the driveway slowly increased in size and began to threaten the house above. The slip debris had to be removed carefully due to the proximity of a live gas pipe. This was done with a digger and by hand. The gas pipe was moved to the side, repositioned and avoided.

Abseil Access worked closely alongside Coffeys to mitigate the problem at an economic outlay.

The work included:

- Scaling and removal of debris, shaping of the slope face
- Drilling using a truck hiab and from scaffolding
- Installation and testing of anchors
- Installation of mesh for and MacMatR for hydroseeding.
- Application of steel reinforced shotcrete

Anchors in the upper section are 8m deep 100mm diameter holes with RB25 anchors. The ground was extremely saturated for drilling which required the use of drilling foam additives to keep flushing pipes clear. Lower section was meshed with MacMatR and had 3-6m 100mm diameter holes with RB25 anchors. There was a total of 38 anchors with the lower 3 rows drilled from a Hiab and the upper section drilled from scaffolding.

The upper section was shotcreted to 150mm thick. The MacMatR was hydroseeded and the project deliverables were achieved within the allocated timeframe.

