

Cantonal Road K2 Lucerne Meggen, Seeburgstrasse

Client

Lucerne Canton (vif – Transport and Infrastructure Department), Roads Inspectorate (KSI)

Consultant

IUB Engineering AG in consortium

Construction period

2011

Construction costs

CHF 210,000

Scope of services

- Construction project
- Implementation project
- Site supervision

Description

On 18.02.2010 at Salzfass, a rockfall occurred from the natural rock wall on the mountain side of the Seeburgstrasse 62 and which reached the K2 cantonal road Lucerne – Meggen. During the initial clear-up work several critical rock blocks were identified in the 10-15m high rock slope consisting mainly of weathered sandstone. There was a particularly precarious section in the north-western part which could pose a future hazard for the road and its users. During an inspection of the Seeburg rock wall for an update of the Lucerne hazard map in winter 2009, a triangular chunk several cubic metres large was identified resting on an old support. The support now looks like a section split off from the cliff by a fissure, probably caused by a light push of the unstable rock mass. The two rock walls, Salzfass and Seeburg were secured against possible collapse using partial rock stabilisation (shotcrete, nails and bottom-set nets).

Main technical data

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|-------------------------|--------------------|
| - Shotcrete | 80 t |
| - Deltax bottom-set net | 170 m ² |
| - Swiss-Gewi anchor | 300 m |

