

B178 Loferer Straße, anchored retaining wall Lärchberg - geotechnical stability assessment

Client:

Salzburg Provincial Government
Dept. 6 Infrastructure and Transport, Bridge
Construction Department

Country:

Austria

Duration:

February- August 2022

Services:

Geotechnical investigation
Stability calculations
Expert opinion and consulting

Project objectives

Geotechnical investigation and assessment of the stability of a 30-year old, anchored retaining wall on the B178 Loferer Straße.

Project description

In the area of the B178 in Lofer, east of the Lärchberg tunnel, there is an anchored retaining wall over a length of approx. 765m. This structure is shored by means of a stone wall in front of it and therefore cannot be accessed or monitored. In order to be able to decide on the necessity of rehabilitation and/or monitoring measures or additional exploration measures, a geotechnical assessment of the stability of the existing construction was carried out on the basis of existing data in coordination with the geological service of the Salzburg Provincial Government.

Project data

- Total length of the anchored retaining wall: approx. 765 m
- Prestressed anchors: 400 pcs, length: 20- 25 m, preload force: 600 kN
- Road cut height: approx. 6 m

Project specifics

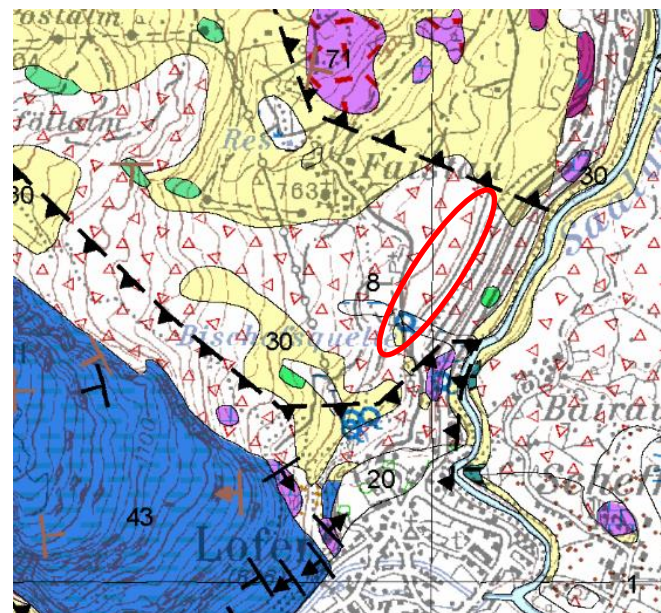
In the investigated section of the road and the anchored retaining wall respectively, lies entirely within a large landslide mass consisting of a very heterogeneous mass of boulders and fine-grained sediments.

Services

Geotechnical investigation
Stability calculations
Expert opinion and consulting



© iC/ Support construction along the B178 before Lärchberg tunnel



© SAGIS/ Excerpt from the geological map