Bridge over the river Freiberger Mulde
Exploration of abandoned mine– Geotechnical investigation

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Objective: Risk assessment, recommendation for remediation measures, detection of abandoned mine under a bridge abutment

Location: Bridge BW 15 Freiberg, Road B 173

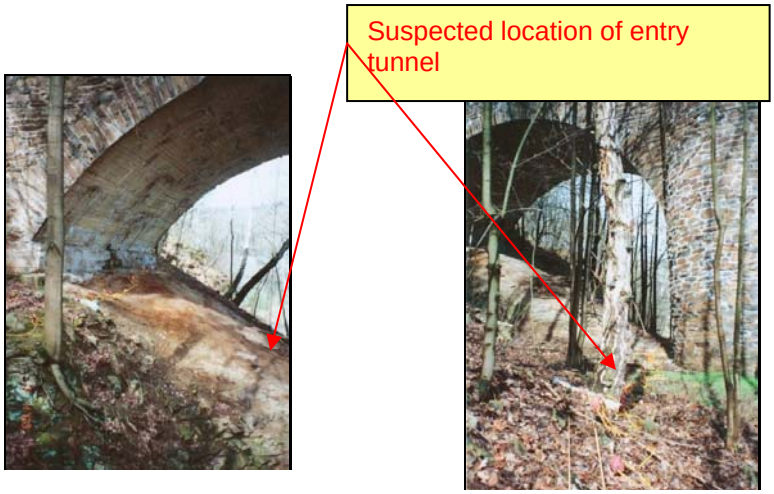
Client: Road Authority Chemnitz

Beneficiary: Road Authority Chemnitz

Year: 2000

Services provided:

- Geophysical studies for determination of conventional borehole approaches using geoelectrical pseudosection
- Implementation of core drilling for the direct detection of a possible former mining cavity (drainage tunnels)
- Measurement of the drilling and encountered cavity
- Visual assessment of columns
- Evaluation of results and risk assessment
- Remediation concepts



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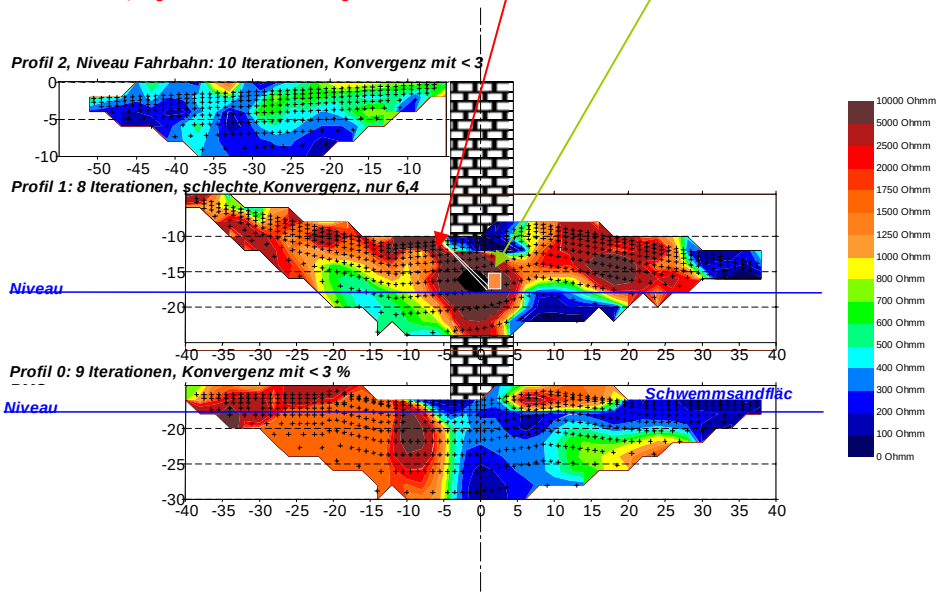
Borehole approach for the implementation of conventional drillings, determination acc. to results of geophysical investigation

Explored cavity below abutment

Brücke B 173, Freiberg,
Geoelektrische Pseudosektionen - Inversionsergebnisse (ohne
Maßstab 1:500, Lage des Brücken-Widerlagers