

# ÖBB High Speed Rail Graz-Klagenfurt Koralmbahn, St. Kanzian Tunnel Chain lots 60.3 and 60.5 Geological Documentation and Consulting

**Client:**

ÖBB - Infrastruktur AG

**Country:**

Austria

**Duration:**

2015- 2020

**Services:**

Geological Construction Documentation

Geotechnical Consultancy

Expert Statement

**Project objectives**

Lot 60.3 “St. Kanzian” and 60.5 “Stein” within the Mittlern–Althofen section with a total number of 5 tunnels, several bridges and open-air-sections is another milestone of the Koralmbahn high speed rail between Graz and Klagenfurt

**Project description**

Both construction lots comprise a total length of mined tunnel sections of more than 2,5 km in rock (Tunnel Stein and Tunnel Lind), as well as in soil (Tunnel Untersammelsdorf), more than 500 m cut-and-cover sections (Tunnel Stein). Moreover the lots contain portal and slope cuts, a cut-and-cover Tunnel (Peratschitzen), top-down-method sections (Tunnel Srejach) as well as bored pile walls, anchor walls, noise protection dams, bridges, landfill sites and material extraction sites

**Project data**

Total investment for lot 60.3 St. Kanzian: 140 million EUR

Total length of lots 60.3 and 60.5: 8,5 km

Total length mined sections: 2.603 m, Top-down-method sections: 668 m

Cut and cover sections: 839 m

**Project specifics**

For the Srejach and Untersammelsdorf tunnels extensive dewatering and soil stabilisation measures like bored piles, jet grouting, etc. were necessary as a consequence of the difficult ground conditions within the so called “Seeton”, a highly water saturated, soft, clayey- silty to sandy sediment

**Services**

iC was in charge of the engineering-geological documentation and consulting in the construction phase of lots 60.3 and 60.5.



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