



## Rhin-Rhône High Speed Railway Line (Eastern section) Geotechnical soil testing

2003 - 2006



**FRANCE - Doubs,  
Haute-Saône,  
Territoire de Belfort**

### Client

**SNCF RESEAU**

### Owner

RFF

### Lead Designer

SETEC / TERRASOL

### Highlights

Section: 25 km long

1,300 boreholes

About 200 piezometers

1 experimental trench

1 shaft and test gallery



### The Project

Since the preliminary design phase (2003), TERRASOL has been ensuring the Project Management of the geotechnical soil testing campaigns on section C of this High Speed Railway Line (1st phase: packages 5, 6 and 7), between Saulnot and Montreux-Château in France.

#### Points-clé de notre mission

- Definition and adjustments of the soil-testing programmes
- Project management of the soil-testing campaigns
- Geotechnical follow-up of experimental structures
- Analysis of available data

### Our Services

TERRASOL assignment consisted in:

- Identifying the geotechnical data required to optimise the design;
- Supervising the soil-testing contractors during their on-site works, including check of compliance with safety rules and RFF (owner) procedures;
- Checking the soil-testing quality and ensuring it matches the geology and project issues;
- Managing administrative and economic aspects of the contracts.

This assignment proved to be most interesting and sensitive due to:

- management of several contractors at a time, as well as of various other specialised participants;
- difficult access to boreholes locations;
- coordination with local residents and local authorities;
- large volume of data to collect, check, and analyse;
- large panel of soil-testing techniques used for the project, due to the variety of issues to deal with: tunnel, earthworks, engineering structures, search for materials, hydrogeology, karstic risk, seismic risk, etc.

### terrasol

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