**RD-2 (Radouň)**

Location:

The RD-2 well is located in Central-North Bohemia (Czech Republic) within the Radouň pumping site, operated by a major regional waterworks company. The site with its 3 pumping wells represents one of several backbone water sources in the regional drinking water supply supporting via a major water feeder urban and industrial areas between Mělník and Ústí nad Labem. Typical operational pumping rates are very high – up to 55 m3/h. The well RD-2 is of 50 depths with plywood casing.

Geology and lithology:

The pumping site is located within the lower part of the Bohemian Cretaceous Basin in relatively shallow sandstone rocks of Cenomanic age. The groundwater table is strongly confined (even with occurrence of artesian wells) with an overlaying aquitard consisting of Turonian marls and marlites. The groundwater flow is strongly bound to fractures in the bedrock forming a typical dual-porosity filtration environment.

Well rehabilitation:

Due to doubts about the resistance of the plywood casing (resp. durability of the specific resin towards acids) the rehabilitation techniques were limited to mechanical air-lift sediment pumping with a limited assistance of nylon brushes. The rehabilitation works were performed during spring 2015.