

Rambouillet - Equipping and connection of three drinking water boreholes



Country
France

Client
Syndicat Mixte de
Production d'Eau Potable
de la Région de Rambouillet
(SYMIPERR)

Date
2007-2009

Cost of works
€2.48m exc. VAT

Sogreah's services

- ▶ Design services and project supervision (preliminary and detailed designs, assistance with works contract, inspection of working designs, supervision of works implementation, assistance with acceptance procedures)

Context

This assignment involved equipping and connecting three boreholes supplying drinking water to two distinct networks:

- that operated by the Syndicat Intercommunal d'Alimentation en Eau Potable de la Forêt de Rambouillet (SIAEP), supplying the localities of Les Bréviaires and Saint-Léger;
- that supplying the town of Rambouillet.

Description

This project was motivated by the drinking water requirements of the town of Rambouillet and the need to provide back-up supplies to the SIAEP in the event of a problem with the existing infrastructure.

The assignment included the following:

- Numerical modelling of the networks concerned, with a view to sizing the various items of hydromechanical equipment for optimum operation of the networks to be created, under several scenarios.
- Design of the pipe layouts (1800 m of ND 150 and 5400 m of ND 300), comprising:
 - routing through a protected forest area,
 - a borehole directed below the RN10 trunk road (dual carriageway),
 - sizing of the hydromechanical equipment for the network.
- Designing the development of the borehole area in accordance with the various

constraints connected with the site, including:

- sizing the borehole pumps (140 m³/h in total) ,
- creating a 300 m³ booster tank and technical equipment room; the booster plant includes 3 pump lines and treatment facilities,
- regulation equipment on the existing networks and storage structures,
- road and utilities development and securing of the area.

Implementation of the project

The programme of works consists of two distinct lots:

- Lot 1: Placing of the transfer pipes.
- Lot 2: Development of the wellfield area.

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