



Country
France

Client
Grand Lyon - Direction
de l'Eau

Date
2007-2010

Cost of works
€7m exc. VAT

Sogreah's services

- ▶ Full project management services
- ▶ Outfall design and monitoring of works implementation



Context

In 2007, Sogreah was commissioned to design an outfall in the Feyssine park area in Villeurbanne, near Lyon and monitor its construction. The outfall is used for discharges from the waste water treatment plant and for stormwater collected by the eastern plain drainage channel.

Description of the project

- 640 lm of 2,000 mm diameter steel lined piping were pushed into the River Rhone, 10 metres below the water level.

- A hydraulic power shovel fixed on a pontoon cleared the way for the piping, under strict environmental surveillance.
- The pipes were transported and delivered by river on Freyssinet barges from Conflans-Sainte-Honorine.
- The pipes were fixed to the diffuser by divers.
- A 50 lm culvert was built in dry docks, dropped off on the river bank and floated through Lyon on the Rhone before being installed in its final position.
- The dispersion structure fitted 7 metres below the water level.

A movable bed physical model was created in 2008 at Sogreah's hydraulics Laboratory, with the aim of checking and determining the precise dimensional design of the outfall.