

Riverbank and River Bottom Protection of the River La Haine at Havré (Belgium)



Financed by: NV Distrigas

Client: NV Distrigas

Date: 1997

Budget: € 20 000

Location: Belgium - Havré (Province Hainault)

Assignment:

The project concerns the stabilization of the banks and bottom of the river La Haine making use of mattress and gabions lining at the location of three Distrigas natural gas pipelines crossing the river.

Scope of Services:

- Local expertise
- Topographical survey
- Design and technical specifications
- Site supervision
- Riverbank protection by gabions
- Erosion protection

Technical Description:

At the location of the three Distrigas natural gas pipelines DN900 crossing the river La Haine (siphon crossings), the local riverbank and river bottom are heavily eroded. By that, the original soil cover (1.50 m) of the pipelines is reduced to less than 0.50 m.

In order to ensure a safe operation and proper protection of the crossing, a minimum covering of the pipelines is strictly obliged. Therefore, a stable riverbank and river bottom is needed.

The project concerns the stabilization of the river bottom and riverbank making use of mattresses and gabions over a total length of about 60 m.

The riverbank protection consists of stacked square cross sectional gabions (1 m by 1 m) in rows of three and four in height. The stonefilled mattresses have a 0.15 m thickness and cover the river bottom.

Doing so, a proper protection of the pipelines is ensured.



Riverbank erosion (situation before works)



Riverbank protection (situation after works)



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