

North-West Europe

Runjal Roadwater Rescue

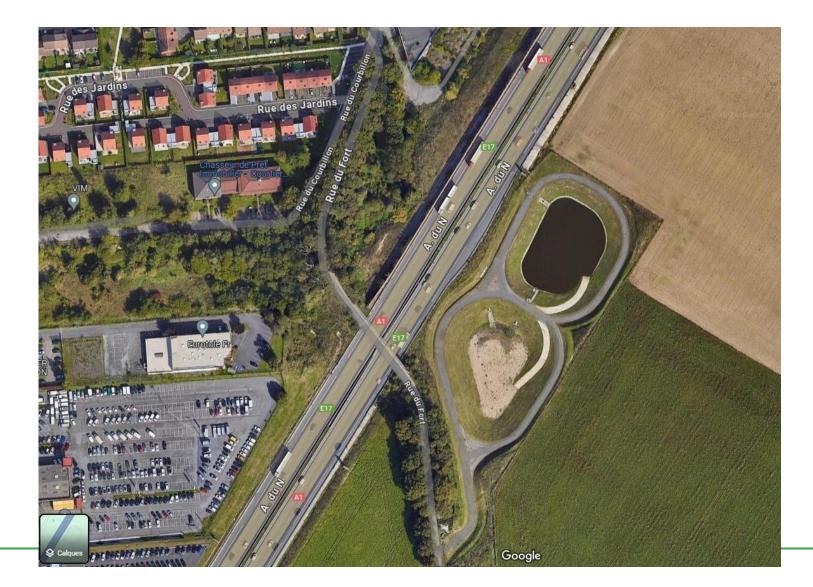
## **RRR Excursion Highway bassins at Vendeville,** 21 February 2024 Alexandre Servier - Cerema

Project manager - Head of the highway surface drainage systems division



North-West Europe

Project name







Project name

**Rural Roadwater Rescue** 

- The A1 freeway basins were built in 2018 to protect the drinking water catchments south of Lille.
- A first basin is designed to treat chronic pollution and retain accidental pollution. It is sealed by a geomembrane waterproofing system and is fitted with a flap valve closure.
- The other basin is designed to infiltrate roadway stormwater after treatment.





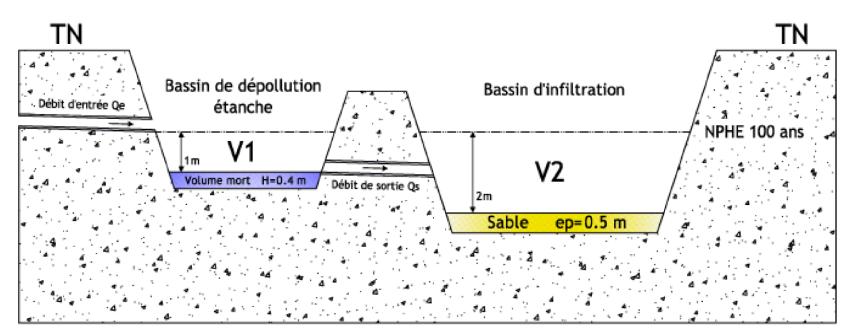
**Project name** 

- The traffic on A1 is about 120000 vehicules/day
- The rainfall return period for pollution treatment sizing depends on the vulnerability of the groundwater. It is typically 2 years. The volume of the basin for water traitment is about 950 m3.
- The rainfall return period for infiltration sizing is typically 30 to 100 years. In this case, 100 years has been selected, and the basin has a volume of around 2,300 m3.

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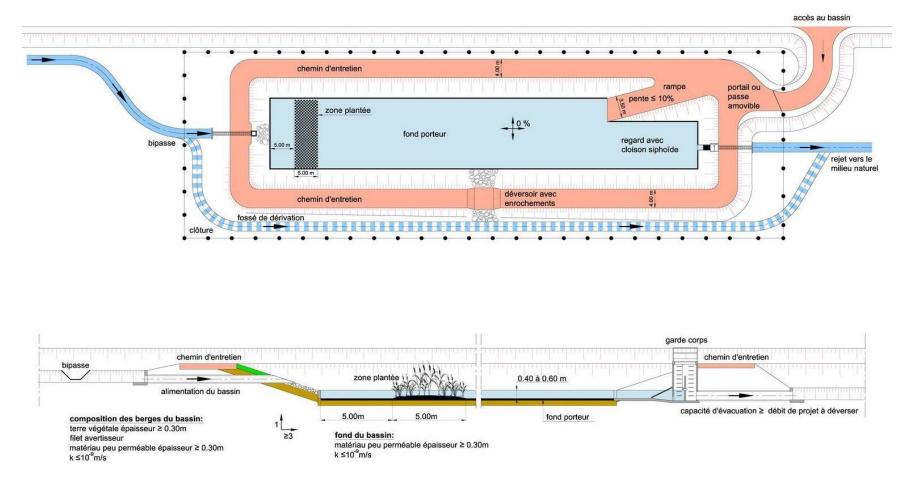
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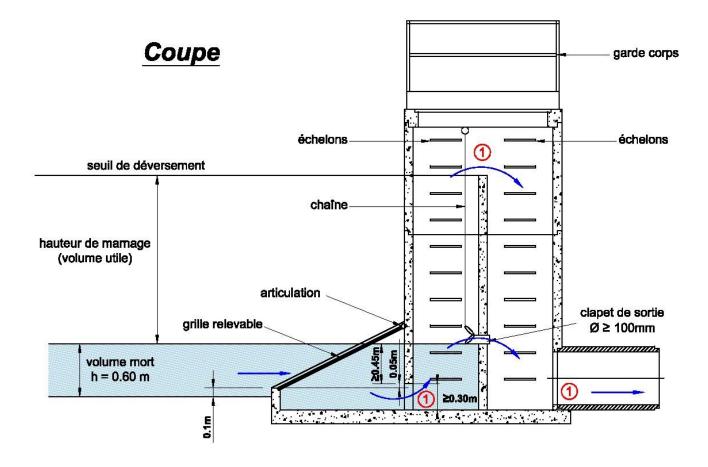
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(1) ouvertures suffisantes pour évacuer le débit de référence Q10 (de la collecte)





**Project name** 

**Rural Roadwater Rescue** 

 The grassy ditches along the highway have also been sealed to retain accidental pollution. The purpose of topsoil is to slow down pollution before it reaches the basins.



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# Thank you