

CASE STUDY

Effective stormwater
management for a
national transport route

REWATEC®

Bypass Separator



QUICK FACTS

Application

N4 national trunk road, Sligo, Ireland

Requirements

- A solution to prevent contamination from silt and hydrocarbons entering the drainage system
- A system to fully treat the pollutants from all flows generated by rainfall rates of up to 6.5 mm/h
- A variety of separator sizes to cope with varying levels of water run-off generated by heavy rainfall/storms

Solution

Rewatec bypass separator

SITUATION

Sligo County Council commissioned an upgrade to the N4 national route which involved the construction of an offline realignment carriageway of approximately 14.71 km long. Roughly 13.82 km of the scheme consisted of a type 2 dual carriageway, with the remainder being a standard single carriageway.

As part of the construction phase to replace the notorious 20 km stretch of the N4 with a 15 km carriageway, there was a requirement to install a range of surface water drainage systems that could separate hydrocarbons from rainwater run-off and/or accidental spillages.

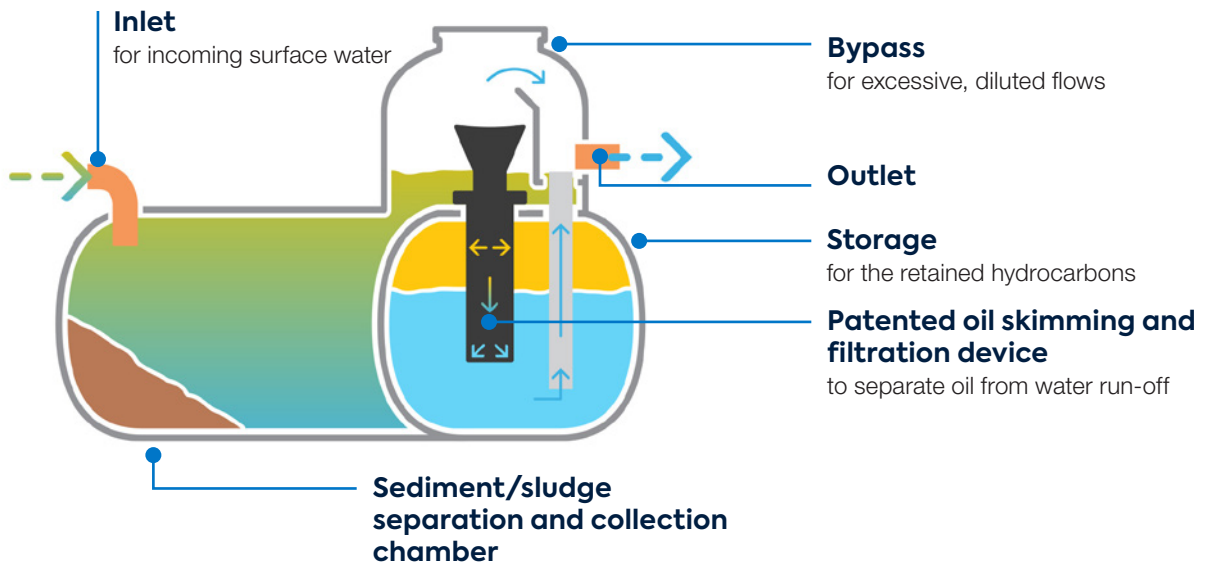
As the level of risk of floods and spillages was deemed to be relatively small, a system that would permit part of the surface water flow to bypass the separator during high flows, was considered to be the most appropriate solution.

SOLUTION

Roadbridge Construction Ltd, who were the civil engineering company for this project, appointed Clandillon Civil Consulting and ByrneLooby to deliver the design scope for construction. After evaluating a number of hydrocarbon separation solutions, ByrneLooby specified 24 Rewatec bypass separators as part of the overall sustainable drainage system (SuDS).

The Premier Tech range of Rewatec bypass separators are constructed from Glass Reinforced Plastic (GRP) and contain the components and associated equipment outlined below:

THE PERFECT SEPARATION SOLUTION FOR AREAS WITH A LOW RISK OF FLOODS



With drainage areas ranging from 1,167 m² to 44,444 m², hydrocarbon storage capacities from 45 L to 1,200 L and silt storage capacities from 300 L to 8,000 L, all 24 Rewatec separators installed across the N4 national route (from Collooney to Castlebaldwin) are now making a difference by providing an effective separation solution to prevent surface water contamination entering the Irish drainage system.



CONTACT US

Speak to our experts about our Rewatec bypass separators or any other of our separation solutions. Whether your project is big or small, we can provide a solution to meet your needs.



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