

## Installation of Arklow long sea outfall

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### ABSTRACT

There are currently no wastewater treatment facilities in Arklow, Ireland. As a result, untreated wastewater is being discharged directly into the Avoca River. A waste water treatment plant is under construction to collect, clean and export the waste water. A long sea outfall (927m) is installed to bring the treated sewage water to the discharge location offshore. Van Oord was responsible for the engineering, procurement and construction of this new long sea outfall.

The long sea outfall works consist of the following items:

- Trench dredging
- Collar installation
- Pipe transportation
- Pipe jointing
- Long sea outfall pipe laying
- Diffuser installation
- Protection frame installation
- Kennel installation
- Rock installation
- Backfilling of trench

This presentation will discuss the scope of the project and in particular the challenging aspects during the installation works. Arklow is a small, but busy, town with a small port, limited space for long pipe lengths, difficult to enter for large vessels and low manoeuvrability. For these specific conditions in Arklow the methods and technical solutions for collar installation, pipe installation and diffuser installation will be discussed.

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