

SCHEME

**Meary Veg Sewage Treatment Works
Isle of Man**

CLIENT

**Isle of Man Government,
Department of Transport**

CONSULTANT

Ove Arup

CONTRACTOR

Charles Brand

PIPE APPLICATION

**750mm and 1500mm diameter WEHOLITE HDPE
Class 4kN/m² pipe installed as a new sea outfall**

WEHOLITE wins on Isle of Man

Large diameter structured twin wall WEHOLITE pipe was used to construct the outfall from the £16.2 million centralised sewage treatment works at Meary Veg, sited south of Douglas on the Isle of Man. The new facility serves as the island's primary treatment plant, serving an ultimate population equivalent of 150,000 and is the flagship project of the IRIS (Island Regeneration and Integration of Sewerage) Project Master Plan.

The sea outfall was originally to be constructed in concrete, but Belfast based contractor Charles Brand recommended an alternative design based on ASSET International Ltd's WEHOLITE pipe. The cost of shipping lightweight plastic pipes compared very favourably to the much higher cost of shipping concrete materials to the island. Concrete pipes weigh around 15

times more than their equivalent WEHOLITE alternatives, and are much more brittle and liable to cracking should the ground move after laying.

The IRIS scheme captures sewage from the whole island via a network of pipelines, pumping stations and an ultra low-loaded activated sludge system via an oxidation ditch and final clarifiers. Meary Veg facilities include an inlet treatment building to screen incoming flows, three 96m long oxidation ditches, two storm tanks and three 28m diameter final settling tanks.

The benefits of fewer delivery journeys, ease of handling and laying on-site plus the option of factory fabrication of sophisticated components, enabled Ove Arup to recommend WEHOLITE as a cost-effective solution.

THE ESSENTIAL SOLUTION FOR PIPE USERS NATIONWIDE

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