

PROJECT SHEET

LOCH RYAN PORT DEVELOPMENT PROJECT
LOCH RYAN, SCOTLAND, UNITED KINGDOM

BOSKALIS WESTMINSTER: SKILLS, RESOURCES, EXPERIENCE

Boskalis provides clients with tailored, project-specific solutions for above dredge related offshore services, as illustrated by the following project summary.

PROJECT DESCRIPTION

The Loch Ryan Port Development Project was initiated in 2009 by Stena Port (Loch Ryan) Ltd. with the main contractor McLaughlin & Harvey Ltd awarding the dredging contract to Westminster Dredging. RPS Ireland Ltd was the clients engineering consultant.

The overall project comprised the construction of a RoRo port facility for the Stena Line connection between Scotland and Ireland including dredging works to allow for safe navigation of the vessels. The Westminster Dredging Ltd. scope of works included the capital dredging of the approach channel (Area 1) and the turning basin (Area 2), with a trailer dredger. All material was disposed at an offshore dump location.

In total, approximately 625,000m³ material was dredged consisting of silt, fine to coarse sand, gravel, cobbles and stones.

The dredging works were undertaken by the 5,600m³ trailer dredger Crestway supported by the plough vessel Norma and survey vessel Tioga B and took under 8 weeks to complete.

Of particular concern was the presence of the only natural oyster beds in Scotland situated just to the south of the present Cairnryan Port. This resulted in the special requirement that, during the works, the turbidity levels measured at predefined points were not permitted to exceed certain trigger levels. Partrac Ltd was contracted to provide real-time suspended sediment concentration monitoring within Loch Ryan. Four buoys were installed, of which two functioned as background buoys (see figure 3) and tow further buoys were located close to the dredge area and function as trigger buoys. Further curtain monitoring was also undertaken from launches during dredging operations.

By monitoring the turbidity levels and closely managing the dredging times and locations, whilst taking into account the main contractors own marine operations, the turbidity levels were kept below any trigger concentration and the dredging works were carried out without the requirement for any delay or modification to operations.

FEATURES

Project Name	Loch Ryan Port Development Project
Client	Stena Line Ports (Loch Ryan) Ltd
Contractor	Westminster dredging Ltd
Location	Loch Ryan, Scotland, United Kingdom
Execution period	Jan – Mar 2011



A Location map
B Crestway
C Aerial View

