

PROJECT SHEET

INVERGORDON & NIGG SOUTH QUAY
NIGG/INVERGORDON, SCOTLAND, UNITED KINGDOM

BOSKALIS WESTMINSTER: SKILLS, RESOURCES, EXPERIENCE

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

PROJECT DESCRIPTION

Global Energy constructed a new quay wall and finger pier to promote an increase in work for the Nigg Energy Park. In front of the new quay, the seabed was deepened to -12m CD to accommodate the larger offshore vessel and rigs.

McLaughlin & Harvey was the main contractor for the construction of the quay wall and the dredging works and infill works were undertaken by Boskalis Westminster as a sub contractor.

The first phase of the works involved the dredging at the Nigg South Quay Development using the trailer dredger WD Mersey. The material was pumped ashore in the Finger Pier and stockpile at the Nigg Energy Park, with the remainder of the material discharged at the "Sutors" offshore licensed Marine Disposal area.

The second phase involved the dredging of Nigg South Quay Development to final design level using the larger trailer dredger Causeway. The material was pumped ashore in Invergordon behind a new quay wall constructed by McLaughlin & Harvey with the remainder of the material from Nigg disposed at the "Sutors" licenced disposal area.

Quantities:

- 295,000m3 Beneficial reuse at Invergordon
- 53,000m3 Beneficial reuse at Nigg
- 295,000m3 Marine, discharged at the "Sutors" disposal area

PROBLEM SOLVING

There was limited area available for pumping ashore in Invergordon. This meant that on top of the normal required level of +5.5m CD in the north lagoon, a stockpile had to be created up to the +8.0m CD. The works were planned to allow best use of the restricted area, with material discharged at the "Sutors" when there was insufficient space to manage the discharge rate at Invergordon.

SUSTAINABILITY AND THE ENVIRONMENT

The works were undertaken in an environmentally sensitive area, with strict water quality limits and restrictions in place during the presence of marine mammals.

FEATURES

Project Name	Invergordon & Nigg South Quay Phase 2 Reclamation
Client	Global Energy Nigg Limited
Contractor	McLaughlin & Harvey Ltd/Cromarty Firth Port Authority
Location	Nigg/Invergordon, United Kingdom
Exececution Period	October 2014 - March 2015



A Location map
B Causeway
C WD Mersey



The project was innovative, using dredged material which would otherwise have been disposed if at sea, for 2 separate reclamation projects.

COMMUNITY

It was decided in our SHOC (Safety Hazard Observation Card) Forum in 2013 that, to further promote the use of SHOCs, we would donate £10 for each SHOC produced to a selected charity. Using this scheme, £1500 was donated to the Invergordon RNLI.



E



F



G

- E** Pipeline for reuse of reclaimed material
- F** Beneficial reuse of reclaimed material
- G** Causeway

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