Method Statement for plough dredging

ORKNEY ISLANDS COUNCIL
Marine Services

Project Title: Dredging Operations at Rousay harbour
Applicant: Orkney Island council – Marine Services
Location: Rousay harbour, Orkney Islands

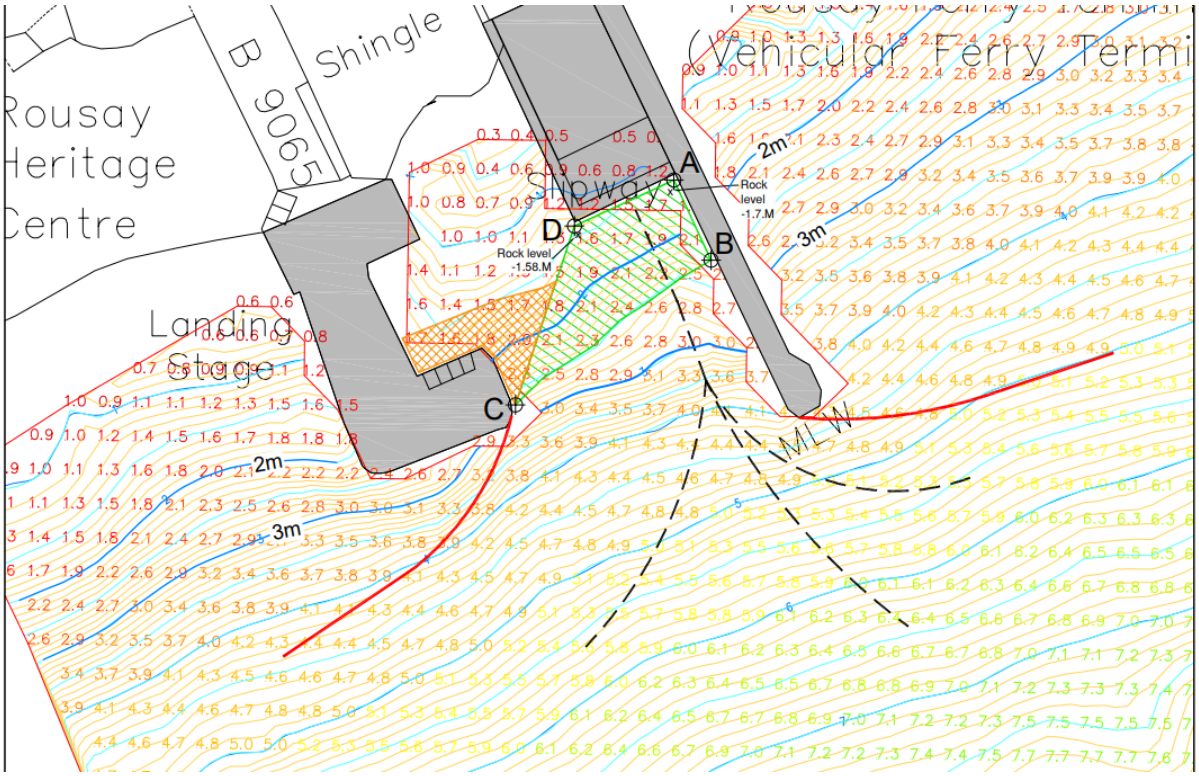
Date: May 2026 (predicted)

1. Introduction

This method statement supports an application for **obtaining license from MD-LOT** for plough dredging at Rousay harbour. The work will ensure safe vessel access while complying with Marine Safety Management System and environmental protections.

2. Scope of Work

- **Activity**: Plough dredging to remove accumulated sediment from the berthing area.
- **Volume**: [~300 m^3] (including required slope).
- **Equipment**: Low-impact plough dredger (contractor to confirm model).
- **Area of interest:** The dredging operations will be conducted in Rousay Harbour, as illustrated below, with the areas marked in green and orange hatching



3. Methodology

3.1 Pre-Dredging Preparations

3.1.1.Surveys:

- Bathymetric survey to confirm sediment accumulation.

3.1.2.Stakeholder Notification:

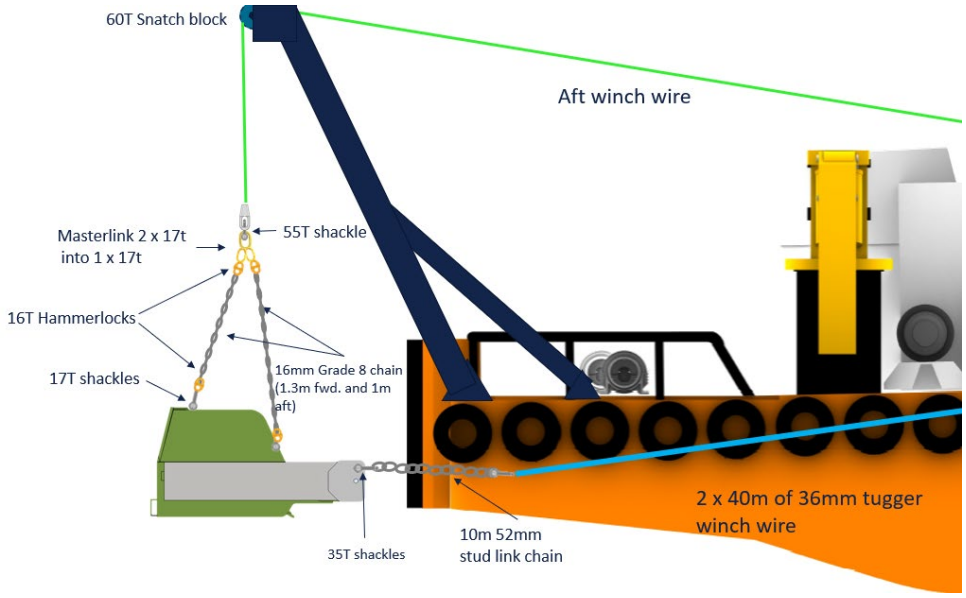
- Inform local fishermen and ferry operators via Marine Services' notification system.

3.2 Dredging Operations

3.2.1. Equipment mobilization

- Pre- Operation Checks including Notice to Mariners in place, Site Access Permit / Permit to Work, Weather Forecast Review and Weather Window Confirmed, Documentation Approved by the client, ensure all equipment has been inspected and is fit for purpose
- Equipment preparation and Check
- Equipment loading

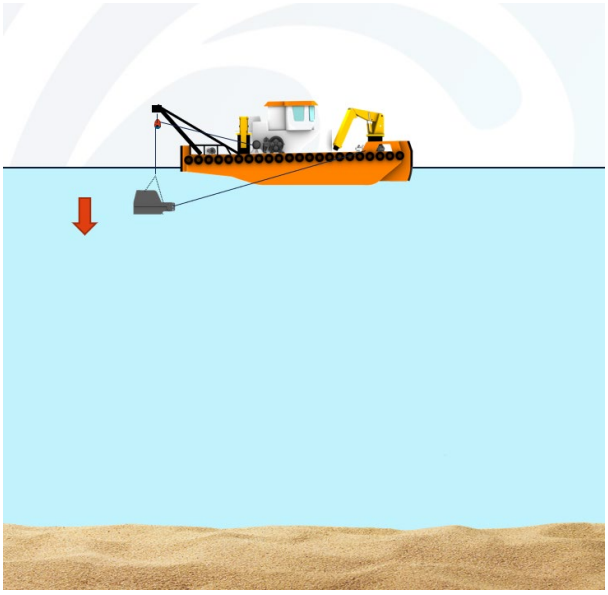
3.2.2. Plough Dredge Set-Up & Installation



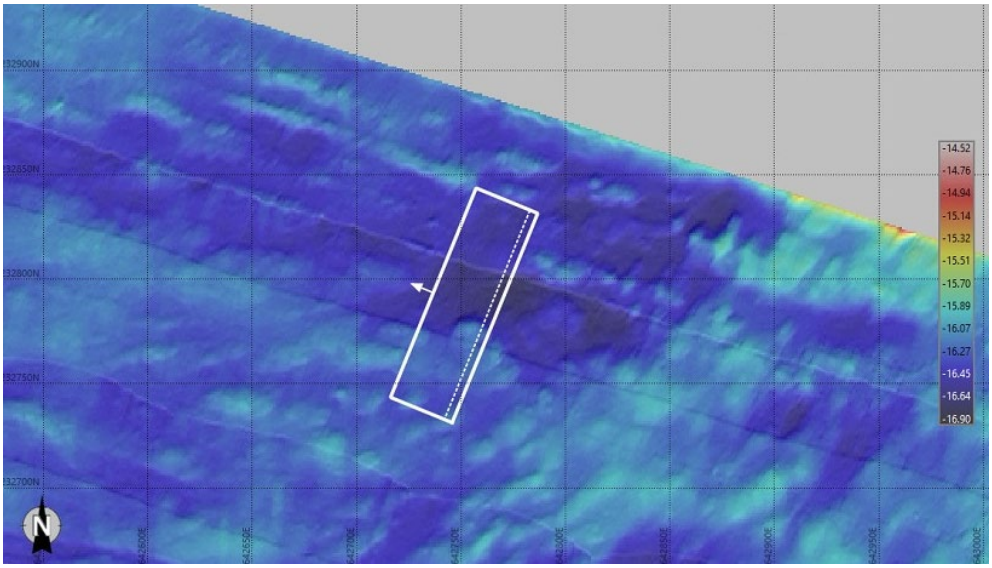
3.2.3. Vessel and equipment mobilization

3.2.4. Plough dredging operations

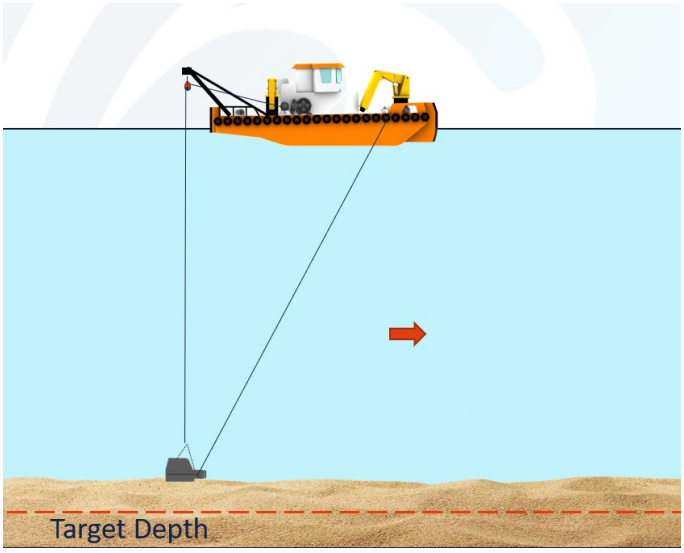
- Vessel positioning
- Plough dredge set- up and installation
- Plough dredge Ops



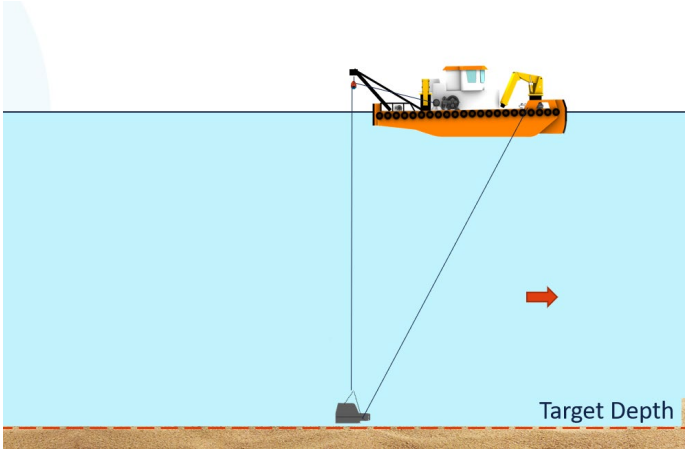
Schematic section view before commencing dredging.



Schematic plan view of the vessel during the dredging operation



Vessel to slowly start moving forward (in the direction of arrow marked in above picture), crew to ensure tugger winch wire remain under the same tension.



Schematic section view after dredging completion.

3.3 Post-Dredging

- **Verification**: carry out post-dredging hydrographic survey

4. Task Hazards

The following hazards listed below have been identified during the preparation of this procedure. This list may not represent ALL hazards associated with this task.

- Lifting Operations
- Access to Deck
- Man Overboard
- Plough Dredge Ops
- Swinging loads
- Manual Handling
- Winch Operations
- Heavy Loads

5. Contractor Responsibilities

- Submit a **Marine Safety Plan** prior to mobilization.
- Ensure all personnel hold all required valid certifications.
- Conduct daily safety briefings and maintain incident logs.

Note: All required certificates and any other relevant documentation, including those related to personnel and vessels, must be assessed during the tender process