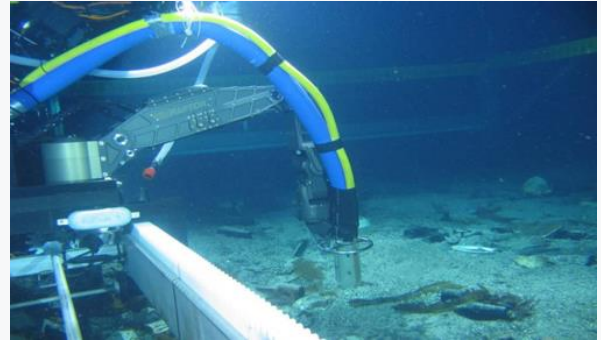


Archaeology Dredge

Ormen Lange, Norwegian Sea

Challenge

A 250-year-old shipwreck was discovered close to the planned pipeline route for the Ormen Lange gas field, at a water depth of 170 m. Thousands of archaeological artefacts were either exposed on the seabed or buried beneath layers of fine sand and silt transported by tidal currents. The challenge was to remove sediments with extreme precision without disturbing or damaging fragile historical objects.



Archaeology Dredge during subsea excavation



Precision sediment removal around historical artefacts

Solution

SediCon developed, designed and supplied a remotely operated Archaeology Dredge specifically for subsea archaeological excavations. The suction force could be precisely adjusted to remove silt and sand while leaving even small artefacts, such as coins, undisturbed.

The custom ROV-based solution enabled safe and highly precise excavation of one of the most technologically advanced underwater archaeology projects ever undertaken.



Project Location

Project facts

Client: NTNU Science Museum
End client: Norsk Hydro ASA
Project: Ormen Lange Marine Archaeology
Location: Norwegian Sea
Water depth: 170 m
Implementation: Summer 2004

Results and benefits

- Precision sediment removal
- Adjustable suction force
- Protects fragile artefacts
- Remote ROV operation
- High-precision excavation
- Featured by National Geographic
- 170 m water depth

SediCon develops innovative sediment handling solutions for offshore and specialized subsea applications.

For more than 30 years, SediCon has developed and supplied proprietary sediment handling technologies from Trondheim, Norway. Our solutions for reservoirs, intakes, desanders and tunnels have been successfully implemented in hydropower projects in more than 20 countries across five continents.