

Nytt kaianlegg Boliden - Odda

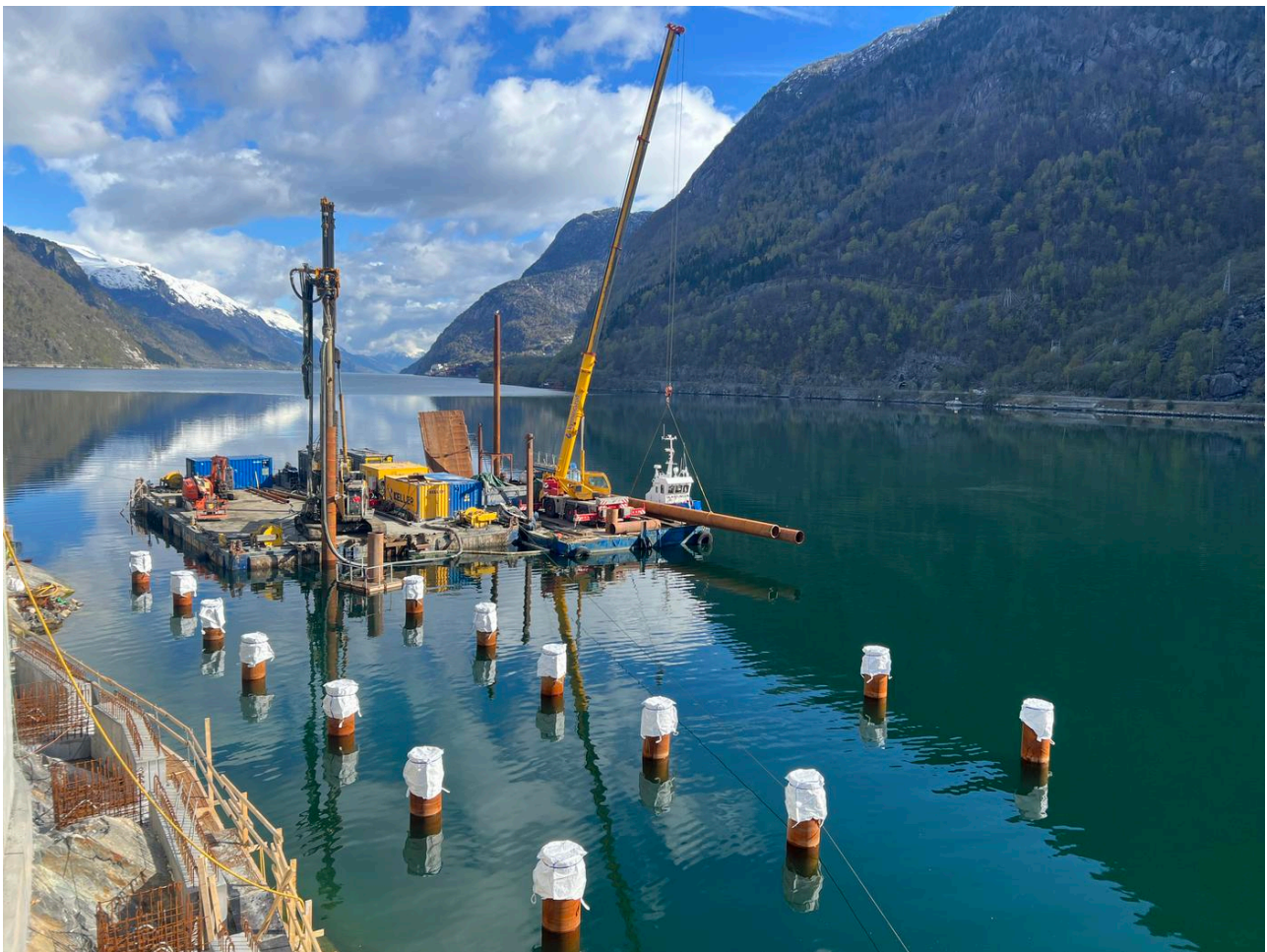
Odda, Norway

KEY ACHIEVEMENTS

Working from floating barges.

High focus on environmental aspects of the works.

Installation of 813 mm x 12.5 mm steel pipes for the maximum length of 25.0m.



The project

On behalf of Boliden AS, Vest Betong AS has been given responsibility to build a new quay at the factory area in Odda. In this regard, there was a need for the establishment of a steel pile foundation for the new quay in order to continue the works. The foundation of this project consists of 22 steel piles with a diameter of 813mm which must have been drilled into good rock.

The challenge

- Working off the barge close to the existing structure with significant water depth (up to 20 m).
- Strict environmental conditions to protect local environment.
- Strict quality tolerances for the steel pile installation.

The solution

- Drilling in reverse circulation (RC) technique to mitigate the sediment pollution of the water by collecting the sediments at the top of the drilling string.
- GPS system used to ensure the drilling angle, azimuth, position and final height are met regardless of the tide water level.
- Meeting the high-quality standards after the drilling by using a video inspection camera and water loss measurement.

Project facts

Owner(s)

Boliden AS

Keller business unit(s)

Keller Geoteknikk
Keller Grundbau
Keller Gründläggning

Main contractor(s)

Vest Betong AS

Engineer(s)

Main contractor's Project Manager:
Rikard Vinningland
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Solutions

Heavy foundations

Markets

Industrial

Techniques

Bored piles / drilled shafts

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