

## Vollsveien 9-11

Lysaker, Norway

### KEY ACHIEVEMENTS

Several techniques involving large equipment on a small site with tight access.

High focus on all environmental aspects of the work with no reportable environmental breach.

All works carried out in accordance with an evolving design.



### The project

On behalf of Mustad (The owner), Øst-riv (The Client) was engaged to demolish the existing building and prepare the excavation pit for the new building. As part of this, Keller was contracted to supply and install sheet piles, micro-piles and anchors (up to 4 rows) to retain several parts of the excavation pits. Keller was also responsible for the works associated with the ground improvement of the very soft soils underlying the future slab and the installation of measures to prevent ground failure towards the nearby Lysaker river.

## The challenge

- Ongoing design reviews / changes throughout the execution of the work.
- Small site with very tight access / egress and significant interfaces with other trades.
- Sensitive environmental assets in the vicinity to be protected during the execution of the work.

## The solution

- Supply and installation of 104m of sheet pile, 67no. anchors, 94no. micro-piles, 1400m of jet grouting and 18820m of DDSM.
- Additional measures implemented when work took place near the river to prevent any migration of construction material or waste into it.
- All works coordinated and delivered in close collaboration with the Client, the Owner's designer and other subcontractors.

## Project facts

### Owner(s)

Mustad Eiendom

### Keller business unit(s)

Keller Geoteknikk  
Keller Grundbau  
Keller Grundlaggning

### Main contractor(s)

Øst-Riv AS

### Engineer(s)

Main Contractor's Project Manager:  
Stian Lindvik  
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### Solutions

Excavation support  
Bearing capacity / settlement control

### Markets

Residential  
Commercial

### Techniques

Sheet piles  
Micropiles  
Dry soil mixing  
Jet grouting  
Ground anchors

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