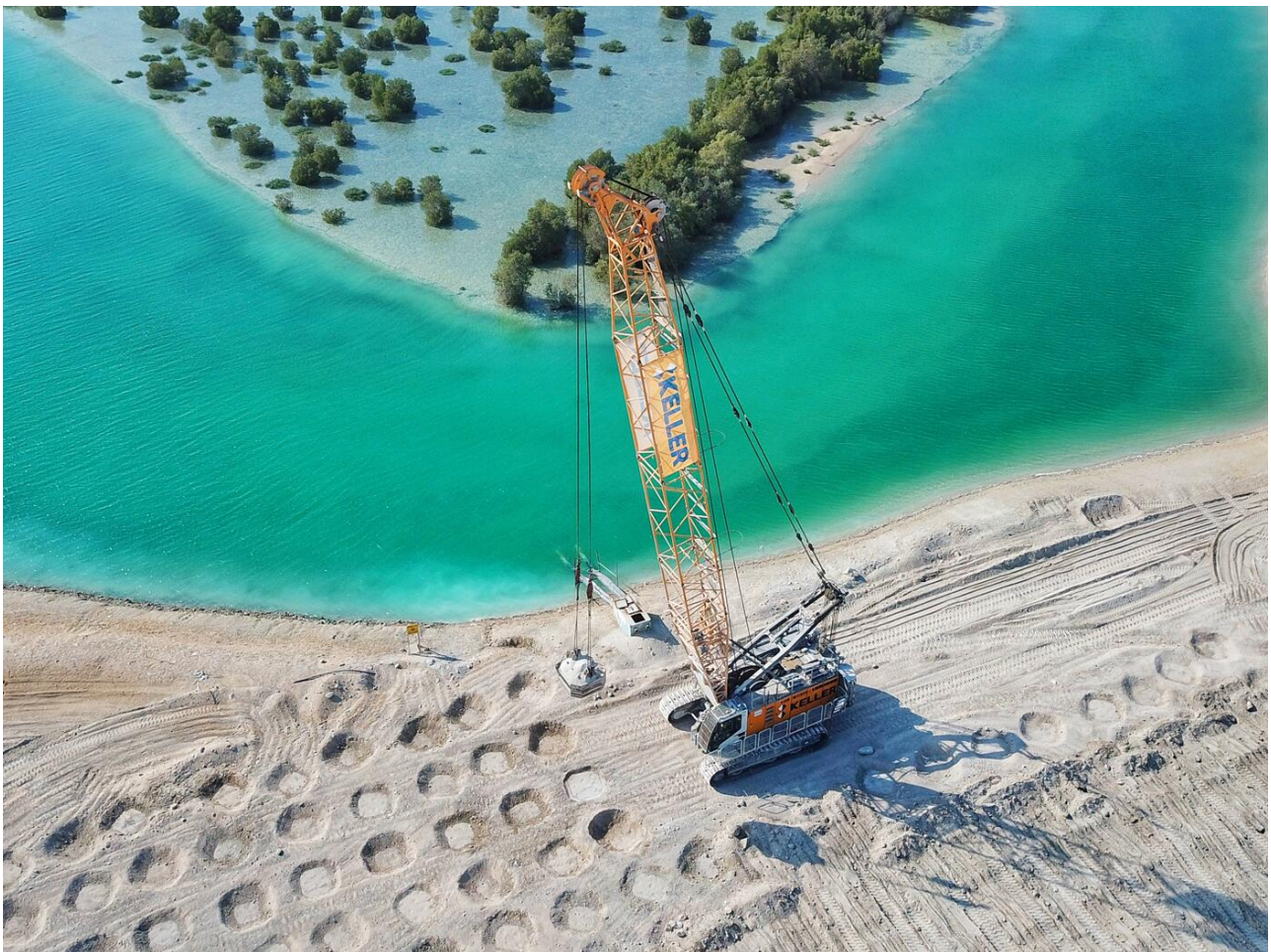


Jubail Island

Jubail, Abu Dhabi, UAE

Ground Improvement for heterogynous soil profile by applying different ground improvement technique.



The project

Jubail Island Project is located between Jubail Island between Yas Island and Saadiyat Island in Abu Dhabi – UAE.

The project involves the construction of villas, parks, shopping and dining facilities, children's play areas, a clubhouse, a swimming pool, parking, and associated facilities.

As part of the prestigious Jubail Island Project, Keller delivered tailored ground improvement solutions using a diverse range of advanced techniques. These included Rapid Impact Compaction, Dynamic Compaction, Dynamic Replacement, Vibro Replacement, and Rigid Inclusions. Each method was meticulously selected and implemented to address varying soil conditions and meet specific design criteria across multiple project locations, ensuring optimal performance and lasting results.

The challenge

- Heterogynous soil profile
- Working close to existing utilities
- Fast track project

The solution

Keller implemented the most effective ground improvement techniques to meet the required design criteria within the allocated schedule.

Project facts

Owner(s)

-

Keller business unit(s)

Keller Grundbau GmbH

Main contractor(s)

-

Solutions

Ground improvement

Markets

Residential

Techniques

Rapid impact compaction (RIC)

Dynamic compaction

Dynamic replacement

Vibro stone columns

Rigid inclusions