

## Singapore Lube Park

Tuas, Singapore

6 cranes mobilized to accelerate the work program, as Keller provided turnkey design, construction and monitoring package.



### The project

The Singapore Lubepark development comprises of a Lube Oil Blending Plant (LOBP) and Lube Park Shared Facilities (LPSF) by three companies, Shell Eastern Petroleum Pte Ltd, Sinopec Lubricant (Singapore) Pte Ltd and Total Oil Asia Pacific Pte Ltd. The Lube Park concept is the first of its kind in the lubricant industries. Keller was appointed to perform ground improvement for the LOBP's and LPSF's structures.

## The challenge

The structures to be built consisted of more than 95 storage tanks, 3 utility tanks, pipe racks, substation building and office building. Manpower management was also a challenge.

## The solution

Vibro compaction works were carried out in these areas to satisfy a bearing capacity requirement of 250 kPa and allowable settlement of 50 mm for tanks and 25 mm for buildings. Approximately 80,000 square meters of the area was treated, in addition to the ground improvement earthworks were incorporated into the Keller scope in order to deliver the whole site to following contractors. Earthworks consisted of importing and compacting engineered fill 1.6 m to 2.5 m thick.

## Project facts

### Owner(s)

Total Oil Asia Pacific, Shell Eastern Petroleum, Sinopec  
Lubricant Singapore

### Keller business unit(s)

Keller ASEAN

### Main contractor(s)

Rotary Engineering Limited

### Solutions

Bearing capacity / settlement control

### Markets

Industrial

### Techniques

Vibro compaction

### Email address

[info@kellerasean.com](mailto:info@kellerasean.com)

### Phone number

+65 6316 8500