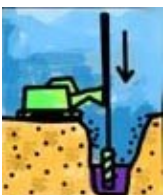


# VIBRO COMPACTION



**GFWA**  
SUSTAINABLE TECHNOLOGY



Deep loose sands can be compacted efficiently using the Vibro Compaction method.

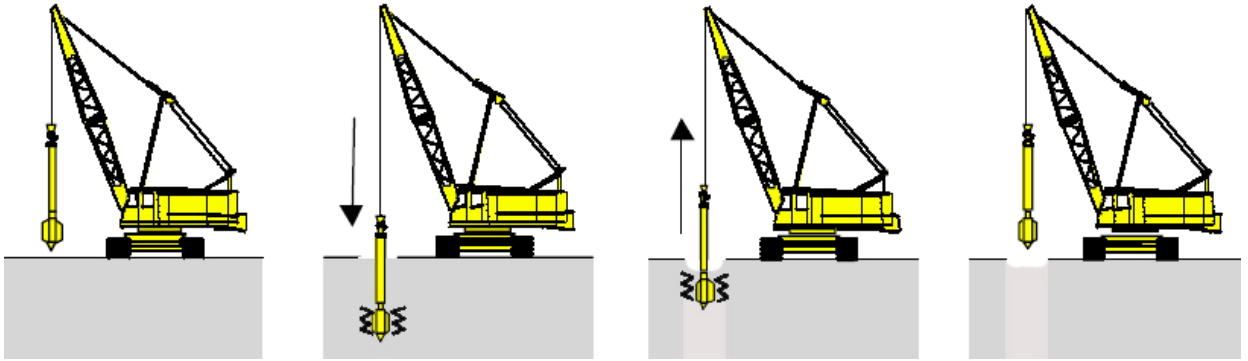
In this technique a vibroflot is inserted into the ground using the combined action of the vibratory motion of the vibroflot itself and pressure supplied by a water jet or air compressor.

The penetration of the vibroflot will cause the surrounding sand to liquefy and to undergo a quasi immediate settlement.

The vibro compaction design will include the vibrator frequency, power, period of vibration per level and distance between insertion points.

## VIBRO COMPACTION

## Work procedure for Vibro Compaction



## Port Botany Expansion Project



Vibro compaction was carried out as part of the ground improvement works of this massive project.

This technology was also used for improving the seabed's physical properties. Upon completion of marine soil treatment, counterfort wall segments, each weighing 600 tons were placed on the improved seabed foundation.



## Recent References

**Ammonia Storage Tank, Kwinana (WA, Australia)**  
**Acid Storage Tank, Kwinana (WA, Australia)**  
**Bunbury Inner Harbour (WA, Australia)**  
**Hillarys Marina Development (WA, Australia)**  
**Port Botany (NSW, Australia)**  
**Palm Island (UAE)**  
**Pasir Panjang Container Terminal (Singapore)**

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