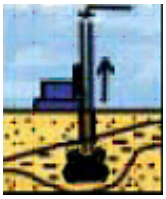
COMPACTION GROUTING

GFWA
SUSTAINABLE TECHNOLOGY



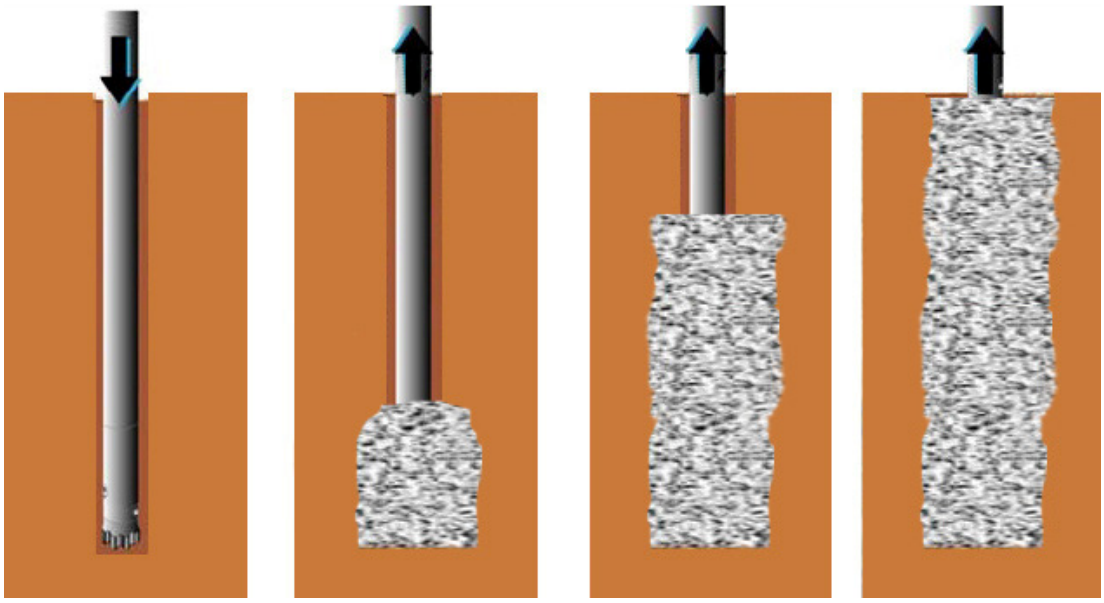
Compaction Grouting provides an appropriate method of improving the engineering properties, density, and shear strength of loose soils.

In this technique a very dry but pumpable mortar is forced into the soil under a high pressure. The objective of this operation is to statically compress and compact the soil by forming bulbs of mortar within the ground.

Compaction grouting does not impregnate or create horizontal rupture planes in the ground. It instead generates high horizontal pressures to make the soil denser.

COMPACTION GROUTING

Work procedure for Compaction Grouting



Studland Bay Wind Farm

Eight of the 25 turbines of Studland Bay Wind Farm were to be located on areas with loose soil, and the original ground conditions were not able to meet the design criteria.

Compaction grouting was used to compact the soil and to increase its physical and mechanical properties.

Recent References

Studland Bay Wind Farm (TAS, Australia) – Roaring 40s – *ground improvement*
Fisherman's Island Wharves 4 & 5 (QLD, Australia) - Port of Brisbane Corporation- *rehabilitation works*
J W Marriott Hotel and Parking Structure, Grand Rapids (MI, USA) – Alticor – *ground improvement*

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