COMPACTION GROUTING

Sustainable Technology

Compaction Grouting

Compaction Grouting provides an appropriate method of improving the engineering characteristics, density, and shear strength of loose soils. It involves forcing a very dry but pumpable mortar into the soil, under high pressure, with the aim of achieving compaction of the soil by the formation of bulbs of mortar within the ground.

Unlike permeation or compensation grouting, compaction grouting does not impregnate or create horizontal rupture planes in the ground, instead it generates high horizontal pressures which are the most beneficial to the achievement of densification of the soil.

The Menard Pressuremeter provides the best method of establishing the suitability and success of compaction grouting by establishing the in-situ density and monitoring the improvement thereof.

In suitable soils mortar/grout consumption is generally in the order of 5% to 10%.

Studland Bay wind farm in Tasmania
Compaction Grouting was used to increase the bearing capacity of the turbine foundations

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Typical low-slump test outcome for compaction grout

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