Jet Grouting for Solving Tunneling Problems in Soft Clays

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Abstract
This paper describes the use of jet grouting in clays for two major tunneling projects. The first example is for ground treatment associated with retaining wall remediation on a huge cut and cover section of the Central Artery in Boston, Massachusetts. The second is for full face pretreatment and structural underpinning, for an underground tunnel in South San Francisco, California, where its use obviated the traditional need for compressed air.

Keywords: Contract C07Al, Boston, Massachusetts; complex set of ground conditions, due to distinct variations, both vertical and lateral, in the natural soils; jet grouting; Islais Creek Tunnels, San Francisco, California; tidal marsh lands filled with dune sand, rock fill, miscellaneous debris and organic waste; Jurassic-Cretaceous bedrock underlie the Holocene Bay Mud continental deposits.