



## At-Grade Guideway Construction: Soil Mixing

The Evergreen Line alignment includes a mix of at-grade and elevated guideways as well as bored tunnel construction.



*Left to right: An auger is used to mix concrete with the existing soil to create footings for the guideway; portable concrete batch plants are used to manufacture the concrete for soil mixing; soil mixing between Clarke Street and the existing rail line.*

At-grade guideway construction involves a ground improvement technique known as soil mixing. Portable concrete batch plants are used to manufacture the concrete for soil mixing and a large drill is used to auger into soft soils, break up the ground and then mix in the cement. This strengthens the supporting soil to limit settlement and liquidation of loose soil layers.

Soil mixing has been used as part of at-grade construction between Clarke Street and the existing rail line in Port Moody and is often an alternative to pile driving.

The next step is to build foundations, the concrete guideway, retaining walls and other wall structures and perimeter fencing. Finally, the trackwork and systems are installed.

If you would like to learn more about the Evergreen Line Project or have your name added to the information email subscription list, please visit the Project Office (2900 Barnet Highway, Coquitlam) weekdays from 8:30 am to 4:30 pm or contact us:

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