

# Geotechnical Investigation Works-Borehole Drilling

## GO Expansion

GO service is expanding to serve you better - with more frequent service, more stations, cleaner technology, and more connections. Across the entire network, our goal is to deliver over 10,000 train trips a week - so you won't need a schedule because you know the next train will be coming soon.

GO Expansion will transform the GO rail network from a commuter service into an all-day, rapid system that will deliver two-way, all-day service every 15 minutes over core segments of the GO rail network.

To start this transformation, geotechnical investigation work will need to be completed at various locations across the network.

## Project Overview

Boreholes will be drilled at various locations across the GO rail network to collect important information about conditions below ground, which will be used to help design and plan for electrification and the GO Expansion program.



This is an artist's rendering and it is subject to change. (Metrolinx image)

## Why are geotechnical investigations required?

Prior to construction, geotechnical investigations are completed to learn more about the characteristics and composition of the ground; things like soil type, texture, structure, density, absorbency and consistency.

Boreholes will be drilled at various locations across the GO rail network. The important information collected about conditions below ground will be used to inform the design and planning work for electrification and the GO Expansion program. The information is also used by the project team to identify suitable methods and sequencing for construction activities.

## What is involved?

Borehole investigations require a drill rig to dig a vertical hole into the ground. The drill is rotated and pushed into the ground by the drill head, powered by the engine of

the drill rig. Once the desired depth is reached, the drill is replaced by an auger which is the tool used to retrieve a soil sample.

The samples are taken to a soil depot to be studied and analyzed. Samples that need to be checked for contaminants will be taken to a specialized lab.

## What to expect

Geotechnical investigations may take place during daytime or overnight hours. At times, work within the rail corridor is required to take place overnight when trains are not in service for safety reasons. Noise and vibration levels are monitored to ensure all levels remain within allowable limits. Site-based mitigation will be implemented. Metrolinx's Community Engagement team will be notifying residents living close to work areas and will be available to answer any questions you might have about these activities.



Shorter journey times and more frequent service will make GO Transit the best option to get around the region. (Metrolinx image)

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