

NEW ISLINGTON PHASE 3 – FOUNDATIONS AND PILING

Site Investigation work has been undertaken on the Phase 3 site and this work broadly shows the prevailing ground conditions comprise:

0 – 4m	Made Ground including upfill in places associated with previous development of the site.
4 – 14-16m	Stiff Clays
14 – 16m+	Glacial Sands and Gravels

Groundwater was noted perched within the made ground and at a depth of around 17 – 18m below ground within the glacial sands and gravels.

Due to the depth of Made Ground piled foundations have been recommended. Pile design will be undertaken by the piling sub-contractor in due course to satisfy performance and workmanship requirements outlined on drawings and in the NBS specification.

Whilst it is acknowledged in the Site Investigation report that piling operations may provide a preferential pathway for contaminants to the underlying groundwater, preliminary pile design criteria suggests piles will generate working capacity at a depth of around 10 – 14m below ground, without needing to extend beyond the stiff clays and therefore mitigating this risk.

Performance requirements outlined on drawings and in the NBS Specification require the piling sub-contractor to recognise good working practices for the design and drilling of piles on contaminated sites such as guidance provided by the Environment Agency (Environment Agency (2001) Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention) and the Institution of Civil Engineers SPERW (Specification for Piling and Embedded Retaining Walls 2016). Detailed pile designs and method statements will therefore be submitted directly by the piling sub-contractor in due course.