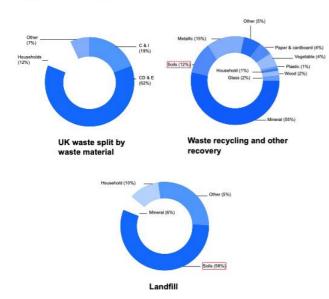
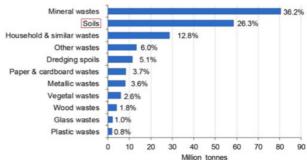
Clay now has become a by-product of the construction industry, particularly of civil engineering practices excavating vast amounts of soil for building foundations, basements and tunnels.

Whilst some of the extracted clay is recycled, mostly for backfilling purposes, the large majority is sent to Landfill.



UK waste split by source





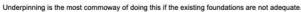
City scale engineering pro-jects such as Crossrail, Thames tideway super sewer, or basement excavations e.g. in Marvlebone Square are extracting vast volumes of London Clay. Crossrail alone displacing 6 million tonnes.



Ground settlement, sub structure techniques in London

The construction of substructures and the technique of excavation rely on many variables. The nature of the ground is a key factor but so is the type of building structure one is trying to provide foundations for. Groundwater and whether or not a basement is to be provided are also important considerations

Most projects in London involve extending or altering buildings either by adding extensions or building up on top of them. When extending them, the new foundations need to be compatible with what exists or else the extension must be structurally separate with a "settlement" joint between the new and old. Sometimes when raising an existing structure, foundations have to be improved to carry the additional load.



Methods of underpinning



