

# GROUND INVESTIGATION

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The ground upon which we stand is incredibly varied and this creates risk. Understanding the interface between a structure and the ground upon which it is built is a fundamental factor in the success of any development project. Gaining a comprehensive knowledge and understanding of ground conditions is therefore the essential starting point for any project, no matter how large or small. Increasingly, this knowledge is also being seen as an accountable method of determining the 'before' and 'after' pollution load, so forming an active part of the 'polluter pays' principle. Cost-effective site investigation, combined with appropriately sourced data collection, should be the essential starting point for any development to help determine foundation designs and the need for any contamination remediation.

Our geological and ground investigations team has huge experience in designing, supervising and reporting on ground investigation for a wide range of developments. We understand that the type and scale of investigation needs to be tailored to meet the type of development and the nature and complexity of the underlying ground. We also recognise that ground investigation work is regularly required to inform the planning process and assist in the discharge of planning conditions, often in relation to contamination remediation.

## WE FOLLOW A FOUR STAGE APPROACH TO GROUND INVESTIGATION:

- Planning stage: Setting clear objectives for the site investigation, including scope and requirements, which enable it to be planned and carried out efficiently and provide the required information. Preparation of standard Bills of Quantities, rig selection and management protocols, against which to secure quotations.
- Desk study: Reviewing historical, geological and environmental information about the site using published data obtained from the British Geological Survey, Environment Agency or other private holders.
- Site reconnaissance (a walkover survey) identifying actual and potential hazards and the design of the main investigation.
- Main investigation and reporting including intrusive and non-intrusive sampling and testing to provide soil parameters for design and construction. Supervision of the drilling contractor, oversight of sampling using nationally accepted selection, data/core logging/recording and in-situ preparation methods. Factual and interpretative ground investigation reporting.



Dynamic Consultancy

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## OUR EXPERTS WILL ENSURE THAT YOUR GROUND INVESTIGATION:

- Identifies susceptibility to groundwater levels and flow
- Establishes the underlying geology and ground and hydro-geological properties
- Identifies physical hazards
- Identifies the presence of methane and other gases
- Provides soil parameters for design and construction

