



**Geotechnical Engineering
Services**

About Us....

Knapp Hicks provide a range of consulting engineering services including geotechnical and geo-environmental services for a range of clients including the preparation of desk top studies, appraisal of existing information, assessment of contamination on development sites, and site visits to assess unexpected ground conditions.

A Range Of Services

Knapp Hicks provide a comprehensive picture of the characteristics of sites, enabling effective geo-environmental risk assessment and remedial design solutions to be developed alongside sound project specific geotechnical advice. Services include:

- Desk Studies
- Site Investigation
- Soakage Tests to BRE 365
- Site Appraisals, land quality statements & risk assessments
- Remediation Strategies
- Assistance with planning & NHBC requirements
- Stability analysis of steep slopes, quarry faces & cliffs
- Foundation inspections
- Identification of Japanese Knotweed and advice on eradication
- Basement Impact assessments
- Advice on site waste disposal & WAC assessment
- Subsidence, landfill & heave investigations



Project Design

Knapp Hicks advises clients on a variety of considerations in relation to geo-environmental conditions and planning. We work closely with the Local Authority Regulators in order to provide cost effective proposals to minimise project delays. All our work is conducted to conform to current guidance (CLR11) and within the framework of a Contaminated Land Environmental Assessment (CLEA)

Ground Investigations

Where appropriate our site specific, risk based assessments combine geotechnical and environmental investigations to provide a value added service. A wide range of investigations have been completed for developers and local authorities under Part 2a of the Environmental Protection Act (1990). Investigative techniques include:

- Recovery of shallow depth soil samples for validation
- Borehole, window sampling, hand auger & trial pit investigations for recovery of samples from depth
- Installation of monitoring wells for the assessment and monitoring of ground water and ground gas

Desk Studies

The first requirement of any new development is to assess the environmental sensitivity of the site and to establish whether past activities in the local area have had an impact on the site. From such a study it may be possible to discharge any Planning Conditions, but should further work be necessary, Knapp Hicks uses the information gathered to design a specific and effective programme of investigation that meets both client and regulatory requirements



Remedial Alternatives

Knapp Hicks is regularly commissioned by developers and local authorities to design and manage the implementation of remedial solutions to mitigate contaminated land issues.

Our Objective is always to manage health and environmental hazards and risks safely and to develop commercially viable options for the subsequent development.

Remedial Options:

- Capping Layers
- Selective soils removal
- Soil treatment, if appropriate
- Ground gas protection measures

Risk Avoidance:

- Amending the design of the structure in order to break potential pollutant linkages

Groundwater:

- Where groundwater may be impacted from past industrial activities, Knapp Hicks works with specialist consultants and remedial contractors to resolve any issues

Laboratories

Knapp Hicks use quality assured UKAS and MCERTs registered laboratories to undertake the chemical analysis of soil and water investigations.



Discharging Planning Conditions

Planning conditions imposed by local authorities (in consultation with the Environmental Agency), do not simply relate to contaminated Land issues, but can cover other aspects of environmental guidance as well. Factors of influence include previous use of the site, environmental sensitivity and the proposed end use of the development.

Knap Hicks's extensive experience in this sector allows us to begin negotiations with regulators at a very early stage in the project. This means that costs and completion dates are better quantified from the start and the likelihood of project hold-ups later on are reduced.

Knap Hicks make every effort to maintain its good reputation amongst regulators and to operate with efficiency and integrity. Knapp Hicks do not take risks which could damage the beneficial goodwill we have nurtured between clients and regulators and we operate within transparency at all levels to keep involved parties aware of project progress.

The discharging of planning conditions is a client priority that Knapp Hicks incorporates into all its projects as a matter of course. Throughout the project our aim is to achieve this at the earliest opportunity, with the minimum time delay and provide the most appropriate solution for the client.

Whether the build project is a domestic crossover or a large scale residential or industrial development, Knapp Hicks have the experience, knowledge and contacts to address all land quality, planning, contaminated land and geotechnical issues.





Contact Us:

**Laval House
Great West Quarter
Great West Road
Brentford
Middlesex
TW8 0GL
Tel: 020 8232 1888**

**Prospect House
1 Highpoint Business Village
Henwood
Ashford
Kent
TN24 8DH
Tel: 01233 502255**

**Prospect House
Suite 10, Swan Business
Centre
1 Swan Park, Kettlebrooke
Road
Tamworth, Staffordshire
B77 1AG
Tel: 01827 307691**

**Prospect House
24 Prospect Road
Ossett
West Yorkshire
WF5 8AE
Tel: 01924 269785**

**E-mail: rmoore@knapphicks.co.uk
Web: www.knapphicks.co.uk**