



SITE INVESTIGATION SERVICES

BMT Cordah Limited

BMT Cordah Limited has an established track record in the provision of site investigation services to assist with the determination of baseline soil and groundwater conditions. Much of this work is undertaken to assist with the identification of potential liabilities in accordance with statutory requirements relating to pollution prevention and control regulations and contaminated land legislation.

Pollution Prevention & Control

The Pollution Prevention and Control (PPC) Regulations 2000 place a requirement on the operator of an installation to determine the condition of the site within the installation boundary. The operator must evaluate the potential risk of emissions associated with activities that are to be controlled by the permit and identify the measures in place to prevent their occurrence. BMT Cordah provides support in the determination of site condition by offering the following services:

- desk based studies to determine the environmental setting, historical context, identification of substances of concern and the development of the Conceptual Site Model for assessment of risk;
- development of site sampling plans;
- consultation with the regulatory authority to ensure its agreement of sampling proposals;
- intrusive site investigations and preparation of baseline and close out investigation reports; and
- preparation of Site Protection and Monitoring Programmes as required under amendments to the England and Wales guidance for site reports.

Contaminated Land

The implementation of Part IIA of the Environmental Protection Act 1990 under the Contaminated Land Regulations 2000 provides the regulatory regime for the assessment of contaminated land, protection of water resources and the protection of human health.



BMT Cordah can provide extensive support in the assessment of a variety of environmental liabilities, incorporating the latest guidance and risk based methodologies:

- initial desk-based reviews and due diligence audits;
- design and supervision of site investigations;
- interpretation of results including risk assessment using the methodologies devised by the Environment Agency, SNIFFER and CLEA;
- application of the ConSim model for assessing risks to groundwater quality by leaching contaminants;
- recommendations for remediation and supervision of remediation contracts.

BMT Cordah has worked closely with local authorities providing training in site investigation and risk assessment techniques, including the development and implementation of written inspection strategies to shortlist key sites for remediation.

Site Investigation Services

Water Resource Management

BMT Cordah staff include hydrogeologists and hydrologists who can provide integrated services in the assessment, management and protection of water resources.

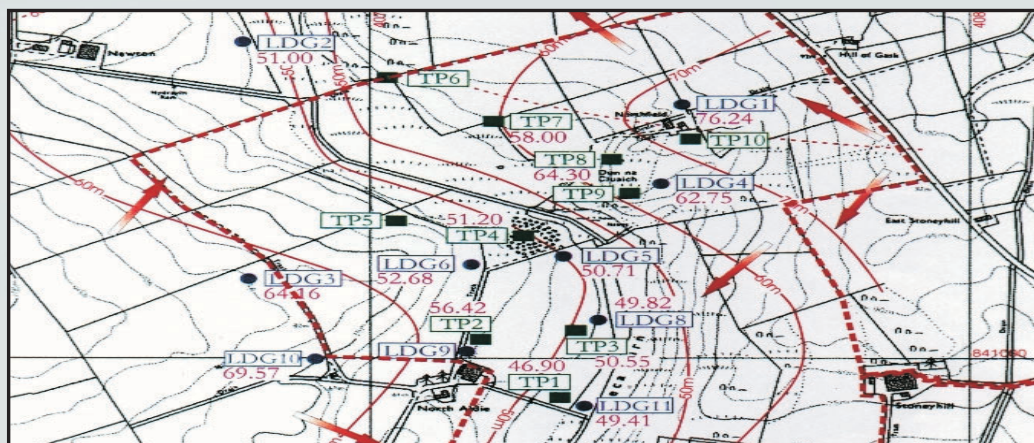
- water sampling and development of water quality monitoring networks;
- assessment of water quality in relation to use (e.g. drinking, irrigation, industrial supply);
- supervision and interpretation of pumping tests in order to assess reliable borehole yield; and
- identification of potential impacts on groundwater and surface water resulting from new developments (e.g. landfills, pipelines, housing).

Examples of Relevant Projects

- full Site Condition Report prepared for lithographic printing company to support PPC application. Draft permit issued in November 2003.
- contamination investigation, including desk study, soil, surface water and groundwater sampling, soil gas assessment and ConSim modelling of a former colliery and refuse tip contaminated with fuel oils and PCBs.
- full Site Condition Report undertaken for a ship repair company, including working closely with SEPA in the development of the site sampling plan.
- review of hydrological and hydrogeological baseline conditions prior to the construction of a major landfill site.

Examples of Relevant Projects continued

- assessment of soil and groundwater quality at the Nigg Oil Terminal to fulfill the requirements of the on-site Environmental Management System.
- review of alternative water supplies (surface and groundwater) for an industrial site.
- review of peat bog hydrology prior to a possible residential development.
- long term surface and groundwater quality monitoring programme, Motorola.
- desk study, site investigation, preparation of remediation plans and supervision of remediation of former airfield site, including detailed human health risk assessment of selected organic compounds.



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