

# Project Profile:

## Site Investigation, with Generic Risk Assessment & Foundation Design Recommendations

Remada

Former Site Use: Police Station

Value: £6,000

Desk Study

Client: Supermarket

Location: Hertfordshire

Intrusive Ground Investigation

The investigation comprised a Phase 1 desk study and Phase 2 intrusive ground investigation with subsequent gas monitoring.

Human Health Risk Assessment

Water Resource Risk Assessment

Mining Risk Assessment

Preliminary Foundation Design Recommendations

Remediation Strategies & Method Statements

Pre-acquisition Advice

Abnormal Cost Assessment

Materials Management Plans & Declarations

UST Decommissioning

Soil Bio-remediation

Soil Stabilisation

In-situ Groundwater Remediation

EA Remediation Permit

Verification & Completion Reports

Soil Treatment Facility

[www.remada.co.uk](http://www.remada.co.uk)

0845 505 5222

[greg.jones@remada.co.uk](mailto:greg.jones@remada.co.uk)  
[graham.wilson@remada.co.uk](mailto:graham.wilson@remada.co.uk)



Remada Ltd  
The Courtyard  
Barston Lane  
Knowle  
Solihull  
B92 0HS

Registered in England & Wales 08302458



The Phase 1 desk study comprised a review of historical mapping, published geological, hydrogeological and environmental data in order to form a preliminary conceptual site model with possible pollutant linkages. Exploratory locations were then selected to:

- a) enable investigation of soil and groundwater conditions
- b) environmental assessment; and
- c) geotechnical conditions relevant to the proposed retail development.

The ground investigation works included window sample boreholes, standard penetration tests, trial pits, hand shear vanes, photo-ionisation detector and in-situ CBR tests. Soils samples were tested at a UKAS accredited geotechnical laboratory for classification and strength tests, and at a MCERTS accredited laboratory for a suite of chemical analysis, and waste acceptance criteria.

A soil and groundwater profile was then prepared for the site in order to characterise strata for proposed foundations and identified contaminants.



Preliminary foundation design recommendations included:

- bearing capacity beneath shallow foundations;
- settlement beneath a ground bearing floor slab; and
- ground gas protection measures.

Contaminant concentrations were compared with generic assessment criteria for the protection of human health, and separately water resource quality standards.